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U. S. DEPARTMENT OF COMMERCE

WEATHER BUREAU

KEY TO METEOROLOGICAL RECORDS DOCUMENTATION NO. 5.35

CATALOGUE OF METEOROLOGICAL  
SATELLITE DATA—TIROS V  
TELEVISION CLOUD  
PHOTOGRAPHY







U. S. DEPARTMENT OF COMMERCE  
LUTHER H. HODGES, Secretary  
WEATHER BUREAU  
ROBERT M. WHITE, Chief

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## PURPOSE

The Key To Meteorological Records Documentation Series has been established to provide guidance information to research personnel making use of climatological data.

Frequently users of such data have found it necessary to spend a great deal of time establishing whether the criteria for observing or computing various elements have changed over the period of record or in what form the data are available.

It is therefore hoped that the presentation of this series may not only conserve valuable time but may have a direct influence in improving the accuracy of research results.

## PREFACE

This bulletin contains a complete listing of cloud photograph sequences obtained by the TIROS V meteorological satellite, and a set of maps showing a schematic nephanalysis for each sequence. It also describes how copies of these photographs may be obtained from the National Weather Records Center.

Documentation Section  
National Weather Satellite Center

## EARLIER TIROS DATA CATALOGUES

Catalogues of earlier TIROS Meteorological Satellite data are available in this series, as follows:

- No. 5.31 "Catalogue of Meteorological Satellite Data - TIROS I Television Cloud Photography", published in 1961, price 70 cents.
- No. 5.32 "Catalogue of Meteorological Satellite Data - TIROS II Television Cloud Photography", published in 1963, price 20 cents.
- No. 5.33 "Catalogue of Meteorological Satellite Data - TIROS III Television Cloud Photography", published in 1962, price 70 cents.
- No. 5.34 "Catalogue of Meteorological Satellite Data - TIROS IV Television Cloud Photography", published in 1963, price \$1.00.

CATALOGUE OF METEOROLOGICAL SATELLITE DATA --  
TIROS V TELEVISION CLOUD PHOTOGRAPHY

The TIROS V meteorological satellite was launched by the National Aeronautics and Space Administration on June 19, 1962. Sequences with usable pictures were obtained until May 14, 1963. Traveling in a slightly more elliptical orbit than those of previous TIROS satellites, it averaged about 421 nautical miles above the earth's surface with a difference of 202 nautical miles between apogee and perigee. It had an orbital period of 100.5 minutes which corresponds to 14 and a fraction passes around the earth each day. The orbit was inclined at an angle of  $58.1^\circ$  to the earth's equatorial plane and thus picture coverage was obtained only in the zone bounded roughly by  $65^\circ$  north and south latitude, which is  $20^\circ$  wider than the coverage obtained by previous satellites in the TIROS series.

The satellite was spinning at a rate that varied between 8 and 12 rpm. Being spin-stabilized, the spin axis orientation in space changed only gradually during its operational lifetime. Its two cameras were mounted with their optical axes parallel to the spin axis and were able to view the earth during less than half of each orbital pass. Usable picture coverage was thus restricted to the portion of each orbital pass during which the underlying earth was both sunlit and within view of the cameras.

Camera 1 had a wide angle lens which, when the optical axis was normal to the earth's surface, covered an area about 700 miles square. Camera 2 had a medium angle lens which covered an area about 475 miles square in normal view. When the optical axes departed from vertical, a larger area was viewed in oblique perspective.

Camera action aboard TIROS V was controlled from two Command-and-Data-Acquisition (CDA) stations, one located at Wallops Station near Chincoteague, Va., and the other at Pacific Missile Range, Point Mugu, Calif. The satellite came within radio range of one or both of these stations for a few minutes each on 8 or sometimes 9 of its 14 daily passes. During these radio contacts the station could:

1. receive a series of television pictures directly as they were taken, if it was daytime and the optical axes were appropriately oriented;
2. command the system to take pictures remote from the CDA station after a specified time delay and store them on tape aboard the satellite;
3. play back one previously commanded tape sequence from each camera.

Pictures received by the direct mode were taken only over the United States and nearby ocean areas, while tape sequences usually show other parts of the world. In the region traversed during the five or six consecutive passes when the satellite could not be contacted, picture coverage was limited to one tape sequence by each camera each day.

Tape pictures were obtained in sequences up to 32 frames each. Direct sequences were usually shorter and more variable in length. Occasionally the direct pictures obtained at one station on one pass may be grouped into two sequences if the series was interrupted to permit playback of a tape sequence. The time interval between frames was either 10 or 30 seconds in most direct sequences, and was always 30 seconds in tape sequences.

The pictures are virtually square with some small distortion resulting from the particular setting of the electronic readout equipment. "Fiducial marks" etched on the face of the vidicon tube appear in the picture image as a central cross and four L-shaped corners, although they may show poorly or not at all against a dark background.

Since the satellite was spinning, the earth's image rotates from frame to frame by an amount that depends on how much the satellite's spin rate departed from being an integral number of rotations during the picture-taking interval. The rotation rate may be considered constant during any one sequence. The center of rotation, which is the point where the optical and spin axes intersect the image plane, is not quite at the central fiducial cross mark. See Reference 3 for photogrammetric information needed to precisely orient TIROS V pictures.

Cloud picture transmissions received at CDA stations were displayed on a television screen and simultaneously recorded on magnetic tape. A 35 mm. camera photographed the television screen, including also a lighted panel board mounted underneath. The panel board information provides a legend for each picture including camera number, mode (TAPE or DIRECT), frame number, orbit pass number, and station initial preceded by "5" for TIROS V. Occasionally a clock appears in the legend but the time shown has no relation to picture taking time.

In the example of figure 1, the legend indicates the picture was received and taken on orbital pass number 708 and that it is a TAPE picture taken by camera 1. The letter W at right center following the number "5" indicates the picture was acquired at the Wallops Station.

The panel board legend also contains a series of numerals whose sum indicates the frame number. In figure 1, the frame number is 14, representing the sum of 8, 4, and 2. (At the bottom of the panel board is a similar series of numerals intended to give information on sun angle, but the system did not work properly and the values cannot be easily interpreted.) Within each sequence, the indicated frame numbers increase in the order that the pictures were received at the CDA station. For direct mode this is the time order in which the pictures were taken. But tape sequences were played back to the station in reverse time order. Pictures of both modes are arranged on the film in order of increasing frame number; therefore it is important to note that this arrangement is correct time order for direct sequences, but is reverse time order for tapes. Malfunctioning occasionally caused the frame counting system to behave erratically resulting in repetition and discontinuity in the frame number series. However, from Pass 623 onward pen and ink changes were made on the films to correct erratic frame numbers.

The orderly time sequence of pictures is sometimes interrupted by spurious noise frames or complicated by skipped frames. In such cases the frame numbers are not a dependable indicator of real picture counts. However, the regular rotation of image orientation is often a helpful clue in determining the actual time interval between particular frames.

The following pages of maps and tabulated listings give descriptive information about the pictures obtained by TIROS V. In the listings each picture sequence is described by one line, and for each station the sequences are listed in the order in which they appear on the film reel. The column headings and entries have the following meanings:

REEL: Number of the film reel which contains the sequence.

FILM LEGEND: This section gives the information actually appearing on the film in the panel board legend accompanying each picture. This information is used to identify the sequence on the film reel.

PASS: Orbital pass number on which the pictures were read out, as indicated in the upper right corner of the legend.



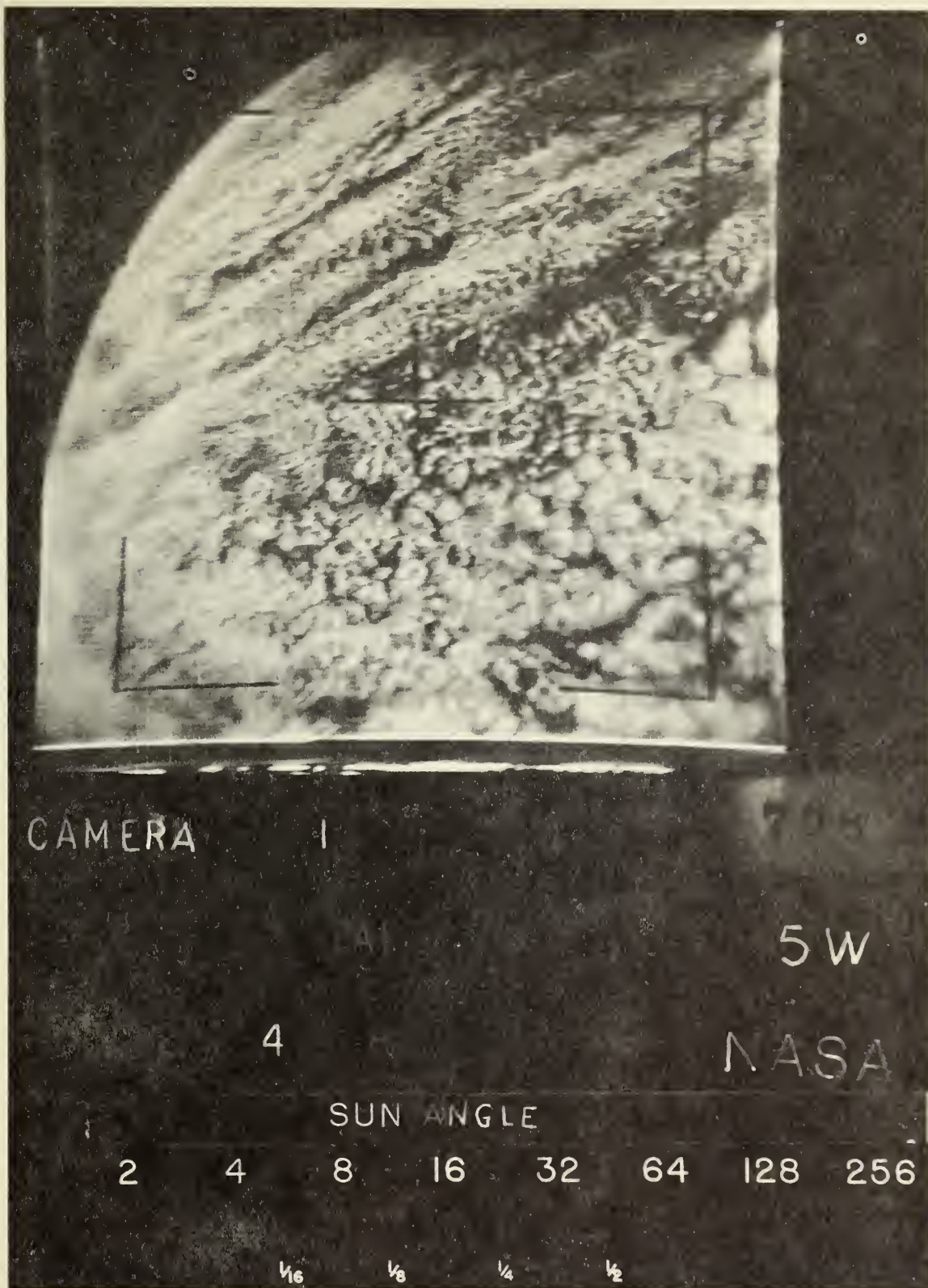


Figure 1 - Example of TIROS V Cloud Photography

M: Mode of transmission indicated in the legend.

D = Direct

T = Tape

C: Camera number indicated in the legend.

1 = Camera number one (wide angle)

2 = Camera number two (medium angle)

S: CDA station which received the sequence.

W = Wallops Station, Va.

P = Point Mugu, (Pacific Missile Range), Calif.

(When the panel board legend contains an error, the information as it appears on the film is listed under FILM LEGEND with an asterisk to indicate an erroneous designation. Correct information for mode and camera can always be found in the PICTURE SEQUENCE DATA section. For direct sequences the correct readout orbit pass number is the same as the picture-taking pass number listed under PICTURE SEQUENCE DATA. For tape sequences the correct readout pass number often can be deduced by comparison with preceding and following sequences. On the film reels, legend inaccuracies are indicated in the sequence title frame by the word ERROR followed by P, C, or M for pass, camera, or mode as appropriate. Beginning with Pass 623 pen and ink changes were made on the films to correct such errors so that the mode and camera columns will be identical under both the FILM LEGEND and the PICTURE SEQUENCE DATA sections. Unfortunately, errors in sun angle are too numerous to designate individually in this manner.)

PICTURE SEQUENCE DATA: This section documents the picture content. Sequences having no usable frames or unknown times are on the film reel and are therefore included in the listings, but are not fully documented in this section.

PASS: Orbital pass number on which the first picture of the sequence was taken. For direct sequences this pass number and the readout pass number given under FILM LEGEND are the same. For tape sequences, however, picture taking usually began on an earlier pass.

M: Actual mode of transmission coded as in FILM LEGEND.

C: Actual camera used, coded as in FILM LEGEND.

DATE: Month and day when the first picture was taken.

TIME: Approximate time, in hours and minutes (GMT), of the midpoint in the sequence. This time is also given with the nephanalysis on the coverage map.

FRAME:

TI: Time interval, in seconds, between frames. V indicates time interval varies within the sequence.

US: Number of usable frames in the sequence.

+: Number of frames in which the central fiducial cross mark appears on the earth, indicating that the earth's image occupies a substantial portion of the picture.

GEOGRAPHICAL AREA COVERED: Column headings refer to numbered areas outlined on the first map. Column entries indicate the areas included in the picture sequence.

L: Presence of a landmark is indicated by the following code:

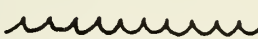









- 0 = No ground image noticed by analyst.
- 1 = Ground image noticed but not identified.
- 2 = Identified ground image that is not particularly distinct or easily recognized.
- 3 = Dramatically distinct image of immediately recognizable ground feature.

VBSC: Presence of a Vortex, Cloud Bands, Cloud Streets or Cells in the sequence is indicated by the following code:

- 0 = None anywhere in the sequence.
- 1 = Ill defined.
- 2 = Easily recognized.
- 3 = Pronounced.

Following the listings is a series of maps which shows the area covered by each sequence having usable frames and for which picture taking time has been determined. Most of the picture sequences were analyzed for their cloud content during routine operations, and these nephanalyses have been reproduced on the maps. Satellite attitude and exposure time are not always accurately known at the time the nephanalyses are constructed. However, most of the nephanalyses are considered to be geographically accurate to about  $\pm 2^\circ$  with a few ranging from  $\pm 1^\circ$  to  $\pm 5^\circ$ . Users are cautioned not to attribute any greater accuracy to the location of cloud patterns shown.

The following legend defines the symbols used in the nephanalyses:

MAJOR	BOUNDARY	
MINOR	BOUNDARY	
CLEAR	CLR	
SCATTERED	S	STFM 
BROKEN	B 	CUFM 
OVERCAST	⊕ 	CIFM 
HEAVY	+	CB 
THIN	-	
	BANDS	
	VORTEX	

When no nephanalysis was available for a usable sequence, a generalized outline of the area covered is shown instead.

The coverage swaths are grouped by PASS DAY, which includes all sequences taken on or near the series of 8 or 9 consecutive passes that come within range of the CDA stations each 24-hour period. These passes may fall on one or on two calendar days, and the maps are dated accordingly. Tape swaths are identified by the readout pass number, followed by the picture-taking pass number. Direct swaths are identified by a single pass number and the letter D. Midpoint time is given for all swaths, and camera number is added when necessary to identify definitely the sequence to which the swath applies. Two direct



sequences acquired at the same station on the same pass are normally combined in one swath, since the short interruption for tape playback usually does not cause a significant gap in the coverage.

TIROS V master films will be deposited at the National Weather Records Center (NWRC), U. S. Weather Bureau, Federal Building, Asheville, North Carolina. Persons or institutions desiring copies may order them from NWRC in the form of 35 mm. positive transparencies for projection or 35 mm. duplication negatives from which opaque prints can be made. The pictures are stored chronologically on 100-foot reels. Orders must be placed for one or more complete reels, at a cost of \$6.00 each, as it is not now possible to furnish copies of individual frames or to provide enlargements or other picture formats. These film copies will be furnished without sprocket holes unless a specific request to the contrary is made when placing the order. Sprocketed copies are furnished at a cost of \$6.50 per reel.

A complete listing of satellite latitude, longitude, and height for all usable sequences, together with other information useful in determining precise location of TIROS V pictures, will be published in the "Meteorological Satellite Laboratory Report" series. Detailed listings of picture-taking time for all frames are contained on the "TIROS V FRAME LOGS" which are on file at the Documentation Section, National Weather Satellite Center, and will be made available on microfilm from NWRC.

Latitude-longitude grids for overlay on TIROS V pictures are being computed for virtually all usable TIROS V sequences. When completed, microfilm copies of these grids will be available from NWRC.

Detailed descriptions of the problems and uncertainties encountered in geographically locating TIROS pictures are contained in References 1 and 2. Reference 4, on the other hand, describes a meticulous hand-rectification method which will produce excellent location information.

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1. Hubert, L. F.: "TIROS I Camera Attitude Data, Analysis of Location Errors, and Derivation of Correction for Calibration", Meteorological Satellite Laboratory Report No. 5, U. S. Weather Bureau, Washington, D. C., 1961.
2. Pyle, R. L. : "Documentation for TIROS IV Television Data", Meteorological Satellite Laboratory Report No. 16, U. S. Weather Bureau, Washington, D. C., 1963.
3. "Documentation for TIROS V Television Data", Meteorological Satellite Laboratory Report now in preparation at National Weather Satellite Center, U. S. Weather Bureau, Washington, D. C., 1963.
4. Fujita, T. : "A Technique For Precise Analysis For Satellite Data; Volume I - Photogrammetry", Meteorological Satellite Laboratory Report No. 14, U. S. Weather Bureau, Washington, D. C., 1963.





REEL	FILM				PICTURE SEQUENCE DATA																									
	LEGEND																				LVBSC									
	PASS	M	C	S	PASS	M	C	DATE	TIME	TI	US	+	1	2	3	4	5	6	7	8		9	10	11	12	13	14	15	16	17
552	0049	T	1	P	0048	T	1	0622	2123	30	15	15										10								30223
552	0049	T*1*		P	0049	D	2	0622	2259	30	02	02			3															30200
502	0056	T	1	W	0052	T	1	0623	0351	30	28	27	1	2						7										03333
502	0056	T	2	W	0055	T	2	0623	0851	30	32	32							6	7										30033
503	0057	T	1	W	0056	T	1	0623	1043	30	31	31							6			11	12					17		30000
503	0057	T	2	W	0056	T	2	0623	1020	30	09	06							5	6										00003
552	0058	T	1	P	0057	T	1	0623	1219	30	28	28							6	7			12							00100
552	0058	T	2	P	0057	T	2	0623	1205	30	21	16							5	6										01322
552	0059	T	1	P	0058	T	1	0623	1402	30	32	32							6			11								30123
552	0059	T*2		P	0059	D	2	0623		30	00	00																		00000
503	0060	T	1	W	0059	T	1	0623	1542	30	32	32							5	6			11							30323
503	0060	T	2	W	0059	T	2	0623	1528	30	13	13							4	5										30033
503	0060	T*1		W	0060	D	1	0623		V	00	01																		00000
503	0061	D	2	W	0061	D	2	0623	1853	30	07	07							4											03303
503	0061	T	2	W	0061	T	2	0623	1845	30	12	12			2	3	4													03333
503	0061	T	1	W	0060	T	1	0623	1723	30	30	30										11								02303
503	0061	T*1		W	0061	D	1	0623	1901	30	03	03							4	5										00000
503	0062	D	2	W	0062	D	2	0623	2038	V	01	01							4											00000
503	0062	T	2	W	0062	T	2	0623	2030	30	15	15			2	3														23303
503	0062	T	1	W	0061	T	1	0623	1908	30	22	22							4	5			10							22000
503	0062	T*1		W	0062	D	1	0623		30	04	04							4											00000
552	0063	D	2	P	0063	D	2	0623	2218	10	18	18							3											30200
552	0063	T	2	P	0063	T	2	0623	2210	30	14	14			2															23300
552	0063	T	1	P	0062	T	1	0623	2045	30	14	14							4				10							30113
552	0063	T*1		P	0063	D	1	0623	2225	10	01	01							3											00000
552	0064	D	2	P	0064	D	2	0624	0000	10	10	10			2	3						9	10							00302
552	0064	T	2	P	0064	T	2	0623	2350	30	31	16			2															20000
552	0064	T	1	P	0063	T	1	0623	2228	30	14	14																		00002
503	0070	T	1	W	0069	T	1	0624	0823	30	31	31									7	8								30333
503	0070	T	2	W	0070	T	2	0624		30	00	00																		00000
503	0070	T	2	W	0066	T	2	0624	0320	30	30	30			1	2						9								02222
503	0071	T	1	W	0070	T	1	0624	1010	30	31	31									7	8								30020
503	0071	T	2	W	0070	T	2	0624	0953	30	06	06							6											03303
503	0071	T	2	W	0071	T	2	0624		30	00	00																		00000
553	0072	T	1	P	0071	T	1	0624	1150	30	32	32									6	7			12					30000
553	0072	T	2	P	0071	T	2	0624	1132	30	24	11							5	6										12330
553	0072	T*2		P	0072	D	2	0624		30	00	00																		00000
553	0073	T	1	P	0072	T	1	0624	1330	30	32	32									6			11	12					30202
553	0073	T	2	P	0072	T	2	0624	1314	30	10	06							4	5										00300
553	0073	T*2		P	0073	D	2	0624		30	00	00							3											00000
503	0074	T	2	W	0073	T	2	0624	1454	30	10	10							4	5										30000
503	0074	T	1	W	0073	T	1	0624	1510	30	32	32									5	6			11					30223
503	0074	T	1	W	0074	T	1	0624		30	00	00																		00000
503	0075	D	2	W	0075	D	2	0624	1820	30	05	05							3	4										01303
503	0075	T	2	W	0075	T	2	0624	1815	30	09	09			2	3	4													21303
503	0075	T	1	W	0074	T	1	0624	1646	30	24	24							5				11							00303
503	0076	D	2	W	0076	D	2	0624	2003	10	12	12							4											00002
503	0076	T	1	W	0075	T	1	0624	1832	30	26	26							4	5			10	11						20003
503	0076	T	2	W	0076	T	2	0624	1958	30	13	13			2	3														02200
503	0076	T*1		W	0076	D	1	0624	2010	30	03	03							4											00002
553	0077	D	2	P	0077	D	2	0624	2143	10	19	19							3											30300
553	0077	T	2	P	0077	T	2	0624	2153	30	19	11			2															00300
553	0077	T	1	P	0076	T	1	0624	2014	30	18	18							4											30223
553	0077	T*1		P	0077	D	1	0624	2152	10	01	01							3											00000
553	0078	D	1	P	0078	D	1	0624	2330	10	15	15			2	3														00302
553	0078	T	1	P	0077	T	1	0624	2155	30	13	13										10								01303
553	0078	T	2	P	0078	T	2	0624	2317	30	20	14			2															20100
504	0085	T	2	W	0083	T	2	0625	0749	30	31	31									7	8			12					30303
504	0085	T	1	W	0080	T	1	0625	0248	30	29	29			1	2						8	9							02312
504	0086	T	2	W	0085	T	2	0625	1118	30	31	31									7				12					30232
504	0086	T	1	W	0085	T	1	0625	1100	30	12	10									5	6								03303
504	0086	T*1		W	0086	D	1	0625		30	00	00																		00000
504	0087	T	2	W	0086	T	2	0625	1300	30	32	32									6			11	12					30002
504	0089	T	1	W	0086	T	1	0625	1244	30	19	18							5	6										23302
504	0089	T	2	W	0087	T	2	0625	1437	30	31	31									6			11						30303
504	0089	T*2		W	0089	D	2	0625	1751	30	01	01							5											00300
504	0090	D	1	W	0090	D	1	0625	1930	30	07	07																		30000
504	0090	T	1	W	0090	T	1	0625	1921	30	16	09							4											20203
504	0090	T	2	W	0089	T																								





REEL	FILM	LEGEND	PICTURE SEQUENCE DATA																	LVBSC											
									FRAME		GEOGRAPHICAL AREA COVERED																				
			PASS	M	C	S	PASS	M	C	OATE	TIME	TI	US	+	1	2	3	4	5		6	7	8	9	10	11	12	13	14	15	16
506	0160	T	1	W	0159	T	1	0630	1505	30	32	30					5					10	11								20333
506	0160	D	1	W	0160	D	1	0630	1643	10	21	21					4														03332
507	0161	T	1	W	0160	T	1	0630	1652	30	31	31					4	5				10									23333
507	0161	T	2	W	0161	T	2	0630		30	00	00																			00000
555	0162	D	2	P	0162	D	2	0630	2002	10	11	11					3														00322
555	0162	T	2	P	0162	T	2	0630	1955	30	02	02					2	3													00312
555	0162	T	1	P	0161	T	1	0630	1833	30	31	31																			31033
555	0162	D	1	P	0162	D	1	0630	2008	10	11	11					3														30212
555	0163	D	2	P	0163	D	2	0630	2146	10	01	01					3														00001
555	0163	T	2	P	0163	T	2	0630	2144	30	11	08					2														02110
555	0163	T	1	P	0162	T	1	0630	2018	30	31	31					3					9	10			14	15				32233
555	0163	D	1	P	0163	D	1	0630	2151	10	10	10					3														00032
507	0169	D* 2	W	0168	T	2	0701	0610	30	20	20								7	8											30000
507	0170	T	1	W	0164	T	1	0630	2331	30	23	23					1	2													23300
507	0170	T	2	W	0168	T	2	0701	0602	30	02	00							7												00100
555	0171	T	1	P	0170	T	1	0701	0948	30	29	29												12						17	30323
555	0171	T	2	P	0170	T	2	0701	0931	30	29	27							6	7				12							30233
555	0171	O	2	P	0171	O	2	0701		30	00	00																			00000
555	0172	T	1	P	0171	T	1	0701	1124	30	32	32							6				11	12						17	20233
555	0172	T	2	P	0171	T	2	0701	1110	30	31	27							6												31022
555	0172	O	1	P	0172	O	1	0701		30	00	00																			00000
507	0174	D	2	W	0174	D	2	0701	1606	10	01	01																			00000
507	0174	D* 2	W	0173	T	2	0701	1432	30	32	32								5				11								30303
507	0174	T	1	W	0172	T	1	0701	1250	30	32	29							5	6			11								31333
507	0174	D	1	W	0174	O	1	0701	1611	10	19	19							4	5											03303
507	0175	O*1	W	0174	T	1	0701	1620	30	29	29								5				10	11							00102
507	0175	T	2	W	0175	T	2	0701	1755	V	02	02							4												00003
507	0175	D	2	W	0175	D	2	0701	1755	V	02	02							4												00003
555	0176	O	2	P	0176	D	2	0701	1929	10	09	08					2	3													20000
555	0176	T	2	P	0176	T	2	0701	1922	30	04	00					2														00000
555	0176	T	1	P	0175	T	1	0701	1802	30	32	32							4				10								20002
555	0176	D	1	P	0176	D	1	0701	1935	10	03	03							3												00000
555	0177	T	2	P	0177	T	2	0701	2108	30	08	04					2														00100
555	0177	O	1	P	0177	O	1	0701	2117	10	13	13							3												00220
507	0184	T	1	W	0178	T	1	0701	2258	30	31	31					2					9									30330
507	0184	T	2	W	0182	T	2	0702	0535	30	30	25									7	8									30200
507	0185	T	2	W	0184	T	2	0702		30	00	00																			00000
507	0185	T	1	W	0184	T	1	0702	0910	30	09	09							7					12							30122
555	0186	T	1	P	0185	T	1	0702	1050	30	25	25											12							17	30233
555	0186	T	2	P	0185	T	2	0702	1039	30	29	25							6				11								30133
555	0186	O	2	P	0186	O	2	0702		30	00	00																			00000
555	0187	T	2	P	0186	T	2	0702	1215	30	31	28							5	6			11								30133
507	0188	T	1	W	0186	T	1	0702	1230	30	28	28							6				11							17	30202
507	0188	T	2	W	0187	T	2	0702	1400	30	32	32							5				11								33322
507	0189	T	2	W	0188	T	2	0702	1543	30	31	31							4	5			10	11							30303
507	0189	T* 2*	W	0189	O	1	0702	1721	30	02	00																				00000
556	0190	T	1	P	0189	T	1	0702	1722	30	20	20							4				10								20003
556	0190	T	2	P	0189	T	2	0702	1729	30	23	23							4				10								20002
556	0190	O	2	P	0190	O	2	0702	1900	37	02	02							3												20000
556	0191	T	2	P	0190	T	2	0702	1910	30	30	30							3	4			10						15		30033
556	0191	T	1	P	0190	T	1	0702	1923	30	09	09										10								15	20000
556	0191	O	1	P	0191	O	1	0702	2042	10	16	16							3												01223
507	0198	T	1	W	0192	T	1	0702	2301	30	32	32										9				14					01333
508	0199	T	1	W	0198	T	1	0703	0830	30	32	32									7			12						17	33333
508	0199	T	2	W	0198	T	2	0703	0820	30	26	24									7			12							30003
556	0200	T	1	P	0199	T	1	0703	1018	30	26	26											12							17	30313
556	0200	T	2	P	0199	T	2	0703	1005	30	28	24									6	7		11	12						30133
556	0200	D	2	P	0200	O	2	0703		V	00	00																			00000
556	0201	T	1	P	0200	T	1	0703	1158	30	23	23											11							17	10102
556	0201	T	2	P	0200	T	2	0703	1145	30	26	23							6				11								30233
556	0201	O	2	P	0201	O	2	0703		30	00	00																			00000
508	0202	T	1	W	0201	T	1	0703	1340	30	28	28											11						16	17	30203
508	0202	T	2	W	0201	T	2	0703	1324	30	26	23											11								33333
508	0202	O	2	W	0202	O	2	0703	1502	10	02	00									5										00000
508	0203	T	1	W	0202	T	1	0703	1520	30	20	20											11								02303
508	0203	T	2	W	0202	T	2	0703	1520	30	17	17											11								00303
508	0203	O	2	W	0203	O	2	0703	1647	V	10	10																			



[illegible]





REEL	FILM	LEGEND	PICTURE SEQUENCE DATA																													
								FRAME		GEOGRAPHICAL AREA COVERED																	LVBSC					
	PASS	M	C	S	PASS	M	C	DATE	TIME	T1	US	+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
562	0484	T	1	P	0483	T	1	0723	0603	30	19	13													13					17	02122	
514	0485	T	1	W	0484	T	1	0723	0742	30	24	25											11						16	17	02303	
514	0486	T	1	W	0485	T	1	0723	0923	30	24	24																			00000	
562	0487	T	1	P	0486	T	1	0723	1105	30	24	18																			02220	
514	0495	T	1	W	0493	T	1	0723	2247	30	27	23								8					13						00000	
515	0496	T	1	W	0495	T	1	0724	0211	30	18	30													13						00000	
515	0499	T	1	W	0498	T	1	0724	0712	30	18	30													13						00000	
515	0500	T	1	W	0499	T	1	0724	0853	30	15	28																			00000	
515	0501	T	1	W	0500	T	1	0724	1035	30	18	02																			00000	
562	0502	T	1	P	0501	T	1	0724	1215	30	20	10																			16 17	02012
562	0503	T	1	P	0502	T	1	0724	1353	30	22	18																			15 16	03132
515	0509	T	1	W	0503	T	1	0724	1538	30	24	29								8					13						00000	
515	0510	T	1	W	0509	T	1	0725	0141	30	17	30													13						00000	
562	0511	T	1	P	0510	T	1	0725	0317	30	15	14													13						03000	
562	0511	T	2	P	0510	T	2	0725		30	00	00																				00000
562	0512	T	1	P	0511	T	1	0725	0456	30	20	14														13						03232
515	0513	T	1	W	0512	T	1	0725	0642	30	23	30														13						00000
515	0514	T	1	W	0513	T	1	0725	0823	30	24	30														13						00000
515	0515	T	1	W	0514	T	1	0725	1003	30	24	31																				00000
563	0516	T	1	P	0515	T	1	0725	1145	30	21	12																				03021
563	0517	T	1	P	0516	T	1	0725	1315	30	22	19																				00111
515	0523	T	1	W	0517	T	1	0725	1504	30	24	29																				00000
515	0524	T	1	W	0523	T	1	0726	0111	30	15	31								8					13						00000	
563	0525	T	1	P	0524	T	1	0726	0245	30	05	05														13 14						00000
563	0526	T	1	P	0525	T	1	0726	0426	30	11	07														13						03220
515	0527	T	1	W	0526	T	1	0726	0611	30	16	30																				00000
515	0528	T	1	W	0527	T	1	0726	0752	30	14	32																				00000
515	0529	T	1	W	0528	T	1	0726	0932	30	18	31																				00000
563	0530	T	1	P	0529	T	1	0726	1109	30	17	12																				01001
563	0531	T	1	P	0530	T	1	0726	1250	30	18	04																				02110
515	0538	T	1	W	0531	T	1	0726	1434	30	16	28																				00000
515	0539	T	1	W	0538	T	1	0727	0217	30	17	28														13 14						00000
563	0540	T	1	P	0539	T	1	0727	0352	30	12	03																				03200
563	0541	T	1	P	0540	T	1	0727	0535	30	20	02																				00200
516	0542	T	1	W	0541	T	1	0727	0718	30	20	30																				00000
516	0543	T	1	W	0542	T	1	0727	0859	30	13	31																				00000
563	0544	T	1	P	0543	T	1	0727	1036	30	22	03																				00000
563	0545	T	1	P	0544	T	1	0727	1217	30	18	26																				00000
516	0552	T	1	W	0546	T	1	0727	1536	30	12	32																				00000
516	0553	T	1	W	0552	T	1	0728	0139	30	10	32															13 14					00000
563	0555	T	1	P	0554	T	1	0728	0500	30	03	03		1		3																00000
516	0556	T	1	W	0555	T	1	0728	0644	30	10	32																				00000
516	0557	T	1	W	0556	T	1	0728	0825	30	19	32																				00000
563	0558	T	1	P	0557	T	1	0728		30	00	00																				00000
516	0566	T	1	W	0559	T	1	0728	1327	30	23	31																				00000
516	0567	T	1	W	0566	T	1	0729	0111	30	11	32																				00000
563	0568	T	1	P	0567	T	1	0729	0255	30	07	00																				03000
563	0569	T	1	P	0569	T	1	0729	0612	30	06	27								8												00002
516	0570	T	1	W	0569	T	1	0729	0616	30	28	32																				00000
516	0571	T	1	W	0570	T	1	0729	0757	30	27	32																				00000
564	0572	T	1	P	0571	T	1	0729	0934	30	05	14																				00110
516	0580	T	1	W	0573	T	1	0729	1259	30	30	31																				00000
516	0581	T	1	W	0580	T	1	0730	0042	30	32	32																				00000
564	0582	T	1	P	0581	T	1	0730	0216	30	29	14																				03002
564	0583	T	1	P	0582	T	1	0730	0401	30	32	25																				02101
516	0584	T	1	W	0583	T	1	0730	0545	30	32	32																				00000
516	0585	T	1	W	0584	T	1	0730	0724	30	26	32																				00000
516	0586	T	1	W	0585	T	1	0730	0907	30	32	32																				00000
564	0587	T	1	P	0586	T	1	0730	1045	30	32	25																				00200
564	0588	T	1	P	0587	T	1	0730	1227	30	32	25																				03312
517	0594	T	1	W	0592	T	1	0730	2050	30	30	32																				30303
517	0595	T	1	W	0594	T	1	0731	0013	30	31	32																				02303
564	0596	T	1	P	0595	T	1	0731	0154	30	32	29																				03330
564	0597	T	1	P	0596	T	1	0731	0335	30	32	32																				13311
517	0598	T	1	W	0597	T	1	0731	0512	30	32	32																				03333
517	0599	T	1	W	0598	T	1	0731	0655	30	22	32																				23333
517	0600</																															





REEL	FILM	LEGEND	PICTURE SEQUENCE DATA																			LVBSC								
	PASS	M	C	S	PASS	M	C	DATE	TIME	TI	US	+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
520	0768	T	1	W	0767	T	1	0812	0210	30	32	32								8	9									00223
520	0770	T	1	W	0769	T	1	0812	0530	30	30	30	1	2						8										30223
520	0778	T	1	W	0777	T	1	0812	1715	30	31	31					5	6				10								30333
520	0779	T	1	W	0778	T	1	0812	2029	30	31	31					4				9					14				32233
520	0779	D	1	W	0779	D	1	0812	2044	30	04	04					4	5												30300
566	0780	D	1	P	0780	D	1	0812	2218	30	13	13					3													30103
566	0780	T	1	P	0779	T	1	0812	2200	30	23	23									9					14				00323
566	0781	D	1	P	0781	D	1	0813	0005	30	10	10					3													20002
520	0783	T	1	W	0782	T	1	0813	0315	30	31	31	1							8					13					31233
520	0784	T	1	W	0783	T	1	0813	0508	30	30	30	1	2						8										32320
566	0785	T	1	P	0784	T	1	0813	0638	30	30	30	1							8										31000
566	0786	T	1	P	0785	T	1	0813	0818	30	32	32	1						7					12						23233
520	0792	T	1	W	0789	T	1	0813	1500	30	32	32						6					11							30223
520	0793	D	1	W	0793	D	1	0813	2006	30	16	16					4													33323
520	0793	T	1	W	0792	T	1	0813	2007	30	17	17					4					10								30333
566	0794	D	1	P	0794	D	1	0813	2145	30	10	10					3													30303
566	0794	T	1	P	0793	T	1	0813	2131	30	25	25									9					14				02333
566	0795	D	1	P	0795	D	1	0813	2328	30	08	08					3													30302
566	0795	T	1	P	0794	T	1	0813	2306	30	01	01																		00000
520	0797	T	1	W	0796	T	1	0814	0245	30	32	32			2					8										00333
520	0798	T	1	W	0797	T	1	0814	0430	30	32	32	1	2						8										33323
566	0799	T	1	P	0798	T	1	0814	0604	30	31	31	1							8										33003
566	0800	T	1	P	0799	T	1	0814	0744	30	30	30	1						7					12						22033
520	0806	T	1	W	0804	T	1	0814	1606	30	31	31						5	6			10								33333
520	0807	D	1	W	0807	D	1	0814	1927	30	15	15					4	5												03323
520	0807	T	1	W	0806	T	1	0814	1919	30	29	25					4					10								03333
520	0808	D	1	W	0808	D	1	0814	2117	30	09	09						4												30333
520	0808	T	1	W	0807	T	1	0814	2104	30	31	31					3				9					14				30003
567	0809	D	1	P	0809	D	1	0814	2253	30	15	15					3													30103
567	0809	T	1	P	0808	T	1	0814	2240	30	26	26									9					14				02333
567	0810	T	1	P	0809	T	1	0815	0028	30	31	31									9					14				10333
521	0811	T	1	W	0810	T	1	0815	0209	30	32	32			2					8										00303
521	0812	T	1	W	0811	T	1	0815	0400	30	31	31	1	2						8										33333
567	0813	T	1	P	0812	T	1	0815	0531	30	31	31	1							8										33200
567	0814	T	1	P	0813	T	1	0815	0711	30	32	32	1						7					12						21133
521	0821	D	1	W	0821	D	1	0815	1859	30	15	15						4	5											00302
521	0821	T	1	W	0819	T	1	0815	1714	30	32	32									10									30003
521	0822	T	1	W	0821	T	1	0815	2030	30	30	30					3	4			9									30222
521	0822	D	1	W	0822	D	1	0815	2043	30	11	11						4												30302
567	0823	D	1	P	0823	D	1	0815	2220	30	14	14					3													30203
567	0823	T	1	P	0822	T	1	0815	2207	30	27	27									9					14				00233
567	0824	T	1	P	0823	T	1	0815	2355	30	32	32			2	3					9									00233
521	0825	T	1	W	0824	T	1	0816	0138	30	32	32			2					8										00303
521	0826	T	1	W	0825	T	1	0816		30	00	00																		00000
567	0827	T	1	P	0826	T	1	0816	0500	30	32	32	1							8										33323
567	0828	T	1	P	0827	T	1	0816	0638	30	32	32	1							8					12					31133
521	0835	T	1	W	0833	T	1	0816	1638	30	25	25						5				10								30003
521	0835	D	1	W	0835	D	1	0816	1824	60	10	10						4												00003
521	0836	D	1	W	0836	D	1	0816	2008	30	14	14						4												30222
567	0837	D	1	P	0837	D	1	0816	2147	30	07	07					3				9									03330
567	0837	T	1	P	0836	T	1	0816	2133	30	32	27					3				9					14				02332
567	0838	T	1	P	0837	T	1	0816	2333	30	31	31			2	3					9					14				20333
521	0849	D	1	W	0849	D	1	0817	1749	30	11	11						4				10								00002
521	0850	D	1	W	0850	D	1	0817	1934	30	14	14						4												00000
521	0850	T	1	W	0849	T	1	0817	1920	30	30	26									9					14				30222
567	0851	D	1	P	0851	D	1	0817	2111	30	16	16					3													33233
567	0851	T	1	P	0850	T	1	0817	2059	30	27	21									9					14				00323
567	0852	D	1	P	0852	D	1	0817	2255	30	23	23					3													21222
567	0852	T	1	P	0852	T	1	0817	2248	30	11	11					2				9									00323
521	0853	T	1	W	0853	T	1	0818	0030	30	32	32					2				8	9								00303
521	0854	T	1	W	0854	T	1	0818		30	32	32					2				9									02322
521	0855	T	1	W	0855	T	1	0818	0351	30	28	28					2			7										03323
521	0863	D	1	W	0863	D	1	0818	1715	30	09	09						4				10								30021
521	0863	T	1	W	0862	T	1	0818	1534	30	32	32							5			10								00203
521	0864	D	1	W	0864	D	1	0818	1903	30	10	10																		30222
521	0864	T	1	W	0863	T	1	0818	1845	30	31	30									9	10								30022
567	0865	D	1	P	0865	D	1	0818	2040	30	10	10																		







[illegible]

REEL	FILM LEGEND				PICTURE SEQUENCE DATA																		LVBSC										
									FRAME		GEOGRAPHICAL AREA COVERED																						
											PASS	M	C	S	PASS	M	C	DATE	TIME	T1	US	+		1	2	3	4	5	6	7	8	9	10
528	1180	D	1	W	1180	O	1	0909	2026	30	08	08																					01222
528	1180	T	1	W	1180	T	1	0909	2013	30	32	32																					02323
528	1180	D	1	W	1180	D	1	0909	2033	30	07	05																					00032
573	1181	D	1	P	1181	D	1	0909	2206	30	10	10																					03330
573	1181	T	1	P	1181	T	1	0909	2153	30	31	31																					32320
573	1182	O	1	P	1182	O	1	0909	2351	30	13	13																					30002
573	1182	T	1	P	1182	T	1	0909	2333	30	32	32																					30200
528	1189	T	1	W	1187	T	1	0910	0805	30	31	31																					02203
528	1189	D	1	W	1189	D	1	0910	1109	30	10	12																					00202
528	1190	D	1	W	1190	O	1	0910	1254	30	10	12																					21323
573	1191	T	1	P	1190	T	1	0910	1309	30	32	32																					30200
573	1192	D	1	P	1192	D	1	0910	1615	30	08	08																					00000
528	1193	D	1	W	1193	D	1	0910	1808	30	09	09																					10323
528	1193	T	1	W	1192	T	1	0910	1630	30	31	31																					32222
528	1194	T	1	W	1194	T	1	0910	1939	30	26	26																					01203
528	1194	D	1	W	1194	D	1	0910	1957	30	14	13																					10003
573	1195	D	1	P	1195	D	1	0910	2135	30	07	07																					30300
573	1196	T	1	P	1196	T	1	0910	2300	30	17	17																					30330
573	1196	D	1	P	1196	D	1	0910	2319	30	13	13																					30003
528	1203	T	1	W	1202	T	1	0911	0915	30	31	31																					31202
528	1203	O	1	W	1203	D	1	0911		30	00	00																					00000
528	1204	T	1	W	1203	T	1	0911	1054	30	32	32																					32333
528	1204	D	1	W	1204	O	1	0911	1218	30	09	14																					03333
573	1205	T	1	P	1204	T	1	0911	1235	30	32	32																					31332
573	1206	T	1	P	1205	T	1	0911	1415	30	32	32																					33333
573	1206	O	1	P	1206	D	1	0911	1540	30	10	10																					00130
528	1207	O	1	W	1207	O	1	0911	1737	30	10	10																					00202
528	1208	D	1	W	1208	D	1	0911	1924	30	09	09																					00003
528	1209	T	1	W	1209	T	1	0911	2050	30	31	31																					12233
528	1209	O	1	W	1209	D	1	0911	2105	30	05	05																					00000
573	1210	D	1	P	1210	D	1	0911	2243	30	09	09																					23332
573	1210	D	1	P	1210	D	1	0911	2243	30	06	06																					23333
528	1217	T	1	W	1216	T	1	0912	0840	30	32	32																					30222
528	1217	O	1	W	1217	D	1	0912		30	00	00																					00000
528	1218	T	1	W	1217	T	1	0912	1020	30	31	31																					30202
528	1218	O	1	W	1218	O	1	0912	1147	30	09	09																					00000
573	1219	T	1	P	1218	T	1	0912	1201	30	32	32																					30333
573	1220	O	1	P	1220	O	1	0912		30	00	00																					00000
528	1221	O	1	W	1221	O	1	0912	1700	30	08	08																					30000
528	1221	T	1	W	1220	T	1	0912	1520	30	31	31																					30222
528	1222	T	1	W	1222	T	1	0912	1832	30	24	24																					02302
528	1223	T	1	W	1222	T	1	0912	1850	30	24	24																					03223
573	1224	O	1	P	1224	O	1	0912	2207	30	13	13																					00000
573	1224	T	1	P	1224	T	1	0912	2156	30	29	29																					23220
574	1225	T	1	P	1225	T	1	0912	2340	30	31	31																					21222
528	1232	T	1	W	1229	T	1	0913	0628	30	31	31																					33330
574	1233	T	1	P	1232	T	1	0913	1131	30	31	31																					30233
529	1235	T	1	W	1234	T	1	0913	1451	30	32	32																					33333
529	1236	T	1	W	1235	T	1	0913	1636	30	32	32																					30233
529	1237	T	1	W	1236	T	1	0913	1818	30	28	26																					11333
529	1237	D	1	W	1237	O	1	0913	1957	30	10	10																					10033
574	1238	D	1	P	1238	D	1	0913	2140	30	06	06																					30023
574	1239	T	1	P	1239	T	1	0913	2308	30	32	32																					22220
574	1239	D	1	P	1239	O	1	0913	2322	30	07	07																					00220
529	1245	T	1	W	1242	T	1	0914	0420	30	26	24																					20300
529	1246	T	1	W	1245	T	1	0914	0916	30	31	31																					33333
574	1247	T	1	P	1246	T	1	0914	1058	30	31	31																					30232
574	1248	T	1	P	1247	T	1	0914	1236	30	29	29																					30333
529	1249	T	1	W	1248	T	1	0914	1418	30	32	32																					33303
529	1250	D	1	W	1250	O	1	0914		30	01	01																					00000
529	1250	T	1	W	1249	T	1	0914	1603	30	30	28																					30233
529	1250	O	1	W	1250	O	1	0914	1739	30	10	10																					00323
529	1251	T	1	W	1251	T	1	0914	1912	30	26	31																					00333
574	1252	T	1	P	1251	T	1	0914	1929	30	31	22																					21320
574	1252	O	1	P	1252	D	1	0914	2203	30	09	09																					2001





REEL	FILM LEGEND				PICTURE SEQUENCE DATA																				LVBSC							
													FRAME	GEOGRAPHICAL AREA COVERED																		
														1	2	3	4	5	6	7	8	9	10	11		12	13	14	15	16	17	
	PASS	M	C	S	PASS	M	C	DATE	TIME	T1	US	+																				
576	1479	T	1	P	1478	T	1	0930	1530	30	32	32				4					10										31332	
576	1479	O	1	P	1479	O	1	0930	1707	10	10	10				3																31000
576	1480	T	1	P	1479	T	1	0930	1720	30	32	32				3					9	10							15			12323
531	1486	T	1	W	1483	T	1	0930	2351	30	32	32	1																			30030
531	1486	T	1	W	1483	T	1	0930	2351	30	32	32	1							8												30030
531	1487	T	1	W	1486	T	1	1001	0500	30	31	31								7					12							30033
577	1488	T	1	P	1487	T	1	1001	0642	30	31	31												12								30330
577	1489	T	1	P	1488	T	1	1001	0823	30	32	32											11									30330
531	1490	T	1	W	1489	T	1	1001	1008	30	03	00											11									30213
531	1491	T	1	W	1490	T	1	1001	1141	30	32	32										10	11							16	17	01220
531	1492	T	1	W	1491	T	1	1001	1317	30	07	07																				00030
577	1493	O	1	P	1493	O	1	1001	1627	30	01	01																				01330
577	1493	T	1	P	1492	T	1	1001	1500	30	32	32																				32113
531	1501	T	1	W	1497	T	1	1001	2322	30	20	20																				00333
577	1503	T	1	P	1502	T	1	1002	0755	30	32	29												11	12							00333
531	1504	T	1	W	1503	T	1	1002	0936	30	31	30												11								30300
531	1505	T	1	W	1504	T	1	1002	1105	30	32	32													11							31233
531	1505	O	1	W	1505	O	1	1002	1237	30	10	10																				30320
531	1506	T	1	W	1505	T	1	1002	1257	30	32	32																				33320
531	1506	O	1	W	1506	O	1	1002	1420	30	10	10																				30322
577	1507	T	1	P	1506	T	1	1002	1440	30	32	32																				12021
577	1507	O	1	P	1507	O	1	1002	1550	30	12	12																				30211
577	1508	O	1	P	1508	O	1	1002	1740	30	11	11																				01333
577	1508	T	1	P	1507	T	1	1002	1620	30	32	28																				30133
532	1514	T	1	W	1511	T	1	1002	2248	30	31	31	1																			13233
532	1515	T	1	W	1514	T	1	1003	0357	30	32	32																				02303
532	1517	T	1	W	1515	T	1	1003		30	00	00																				00000
532	1519	T	1	W	1518	T	1	1003	1039	30	32	32																				20003
532	1520	T	1	W	1519	T	1	1003	1219	30	31	31																				20333
532	1520	O	1	W	1520	O	1	1003	1346	30	10	10																				20312
577	1522	T	1	P	1520	T	1	1003	1350	30	32	32																				21031
577	1522	O	1	P	1522	O	1	1003	1710	30	12	12																				03320
532	1529	T	1	W	1524	T	1	1003	2033	30	32	32																				03330
532	1530	T	1	W	1529	T	1	1004	0505	30	31	31																				00223
577	1531	T	1	P	1530	T	1	1004	0646	30	31	31																				33321
532	1533	T	1	W	1531	T	1	1004	0827	30	31	31																				20200
532	1534	T	1	W	1533	T	1	1004	1148	30	31	31																				03332
532	1534	O	1	W	1534	O	1	1004	1312	30	14	14																				33333
532	1534	O	1	W	1534	O	1	1004	1315	30	01	01																				03333
532	1543	T	1	W	1534	T	1	1004	1323	30	31	31																				23211
532	1544	T	1	W	1543	T	1	1005	0420	30	31	31	1																			30320
532	1548	T	1	W	1547	T	1	1005	1105	30	32	32																				03333
577	1549	T	1	P	1548	T	1	1005	1245	30	25	25																				33330
532	1561	T	1	W		T	1			30	04	04																				00000
532	1562	T	1	W	1561	T	1	1006	1033	30	32	32																				00233
532	1562	O	1	W	1562	O	1	1006	1206	V	04	04																				03222
577	1563	T	1	P	1562	T	1	1006	1214	30	29	29																				22030
532	1571	T	1	W	1569	T	1	1006	2357	30	31	31	1																			30033
532	1572	T	1	W	1571	T	1	1007	0318	30	31	31																				30012
533	1573	T	1	W	1572	T	1	1007	0458	30	31	31																				30020
533	1575	T	1	W	1573	T	1	1007	0639	30	32	32																				30000
533	1576	T	1	W	1575	T	1	1007	0955	30	24	24																				00220
533	1576	O	1	W	1576	O	1	1007	1131	V	01	01																				03330
533	1577	T	1	W	1576	T	1	1007	1140	30	31	31																				30323
533	1577	O	1	W	1577	O	1	1007	1314	30	04	04																				30102
577	1578	T	1	P	1577	T	1	1007	1316	30	28	28																				20030
577	1578	O	1	P	1578	O	1	1007	1450	30	04	04																				30000
577	1579	T	1	P	1578	T	1	1007	1501	30	29	29																				30033
577	1579	O	1	P	1579	O	1	1007	1635	30	01	01																				00000
533	1585	T	1	W	1583	T	1	1007	2323	30	32	32																				30233
533	1586	T	1	W	1585	T	1	1008	0246	30	31	31																				30333
577	1587	T	1	P	1586	T	1	1008	0430	30	31	31																				30220
577	1588	T	1	P	1587	T	1	1008	0609	30	32	32																				20011
533	1590	T	1	W	1589	T	1	1008	0928	30	32	32																				00233
533	1590	O	1	W	1590	O	1	1008		30	00	00																				00000
533	1591	T	1	W	1590	T	1	1008	1109	30	31	31																				30323





REEL	FILM	LEGEND				PICTURE SEQUENCE DATA																				LVBSC						
						FRAME										GEOGRAPHICAL AREA COVERED																
						PASS	M	C	S	PASS	M	C	OATE	TIME	T1	US	+	1	2	3	4	5	6	7	8		9	10	11	12	13	14
536	1830	T	1	W	1829	T	1	1025	0346	30	31	28															13			17	02333	
536	1831	T	1	W	1830	T	1	1025	0526	30	32	29															13			17	32333	
580	1833	T	1	P	1831	T	1	1025	0708	30	32	29																		17	03333	
536	1845	T	1	W			T	1		30	19	19																			00000	
580	1847	T	1	P	1845	T	1	1026	0633	30	30	30															13			17	32333	
536	1854	T	1	W	1847	T	1	1026	0954	30	32	32																	16	17	02220	
580	1857	T	1	P	1854	T	1	1026	2139	30	31	31																14			03313	
536	1859	T	1	W	1858	T	1	1027	0415	30	32	32															13			17	32323	
580	1862	T	1	P	1859	T	1	1027	0553	30	31	31																		17	03300	
536	1869	T	1	W	1862	T	1	1027	1100	30	32	32																	16	17	00222	
580	1871	T	1	P	1869	T	1	1027	2255	30	29	25																14			00323	
536	1873	T	1	W	1872	T	1	1028	0345	30	32	32															13			17	30303	
580	1876	T	1	P	1873	T	1	1028	0533	30	31	26															13				30332	
536	1883	T	1	W	1876	T	1	1028	1035	30	32	28																12		16	17	30320
581	1885	T	1	P	1884	T	1	1029	0000	30	31	31																			01333	
536	1887	T	1	W	1886	T	1	1029	0320	30	32	30																			30323	
536	1888	T	1	W	1887	T	1	1029	0500	30	32	30																			30223	
581	1890	T	1	P	1889	T	1	1029	0821	30	31	31																12			17	02333
536	1902	T	1	W	1890	T	1			30	32	32																			00000	
581	1903	T	1	P	1902	T	1	1030	0610	30	29	27																12			20333	
581	1904	T	1	P	1903	T	1	1030	0732	30	32	31																12			22003	
581	1913	O	1	P	1913	O	1	1030		30	00	00																			00000	
581	1913	T	1	P	1904	T	1	1030	0930	30	32	31																			00033	
536	1916	T	1	W	1915	T	1	1031	0358	30	32	32																			00000	
581	1918	T	1	P	1917	T	1	1031	0720	30	31	25																			30012	
537	1925	T	1	W	1924	T	1	1031	1903	30	31	29																			21202	
537	1926	T	1	W	1925	T	1	1031	2044	30	28	28																			20303	
581	1927	T	1	P	1926	T	1	1031	2224	30	32	27																			00033	
581	1928	T	1	P	1927	T	1	1101	0005	30	32	27																			00000	
537	1930	T	1	W	1928	T	1	1101	0149	30	25	21																			00233	
537	1931	T	1	W	1930	T	1	1101	0509	30	27	27																			30220	
581	1932	T	1	P	1931	T	1	1101	0650	30	26	24																			20221	
537	1939	T	1	W	1938	T	1	1101	1833	30	27	27																			30230	
537	1940	T	1	W	1939	T	1	1101	2013	30	27	27																			30230	
581	1941	T	1	P	1940	T	1	1101	2151	30	31	29																			00030	
581	1942	T	1	P	1941	T	1	1101	2332	30	30	30																			00330	
537	1944	T	1	W	1942	T	1	1102	0112	30	32	32																			00032	
537	1945	T	1	W	1944	T	1	1102	0433	30	32	31																			32223	
581	1946	T	1	P	1945	T	1	1102	0616	30	30	26																			22111	
581	1947	T	1	P	1946	T	1	1102	0755	30	31	29																			32322	
537	1958	T	1	W	1956	T	1			10	16	16																			00000	
537	1959	T	1	W	1958	T	1	1103	0400	30	30	30																			30023	
581	1960	T	1	P	1959	T	1	1103	0545	30	31	30																			20320	
581	1961	T	1	P	1960	T	1	1103	0722	30	31	29																			20210	
537	1969	T	1	W	1967	T	1	1103	1904	30	31	31																			30233	
582	1970	T	1	P	1969	T	1	1103	2226	30	31	28																			03320	
537	1972	T	1	W	1970	T	1	1104	0005	30	32	28																			20233	
537	1973	T	1	W	1972	T	1	1104	0330	30	31	27																			20033	
582	1974	O	1	P	1974	O	1	1104		30	00	00																			00000	
582	1974	T	1	P	1974	T	1	1104		30	00	00																			00000	
582	1975	T	1	P	1974	T	1	1104	0648	30	31	29																			21230	
582	1975	O	1	P	1975	O	1	1104		30	00	00																			00000	
537	1982	T	1	W	1981	T	1	1104	1832	30	31	31																			30223	
537	1983	T	1	W	1982	T	1	1104	2013	30	31	28																			30032	
582	1984	T	1	P	1983	T	1	1104	2152	30	31	31																			00000	
537	1986	T	1	W	1985	T	1	1105	0106	30	31	28																			00000	
537	1987	T	1	W	1986	T	1	1105	0255	30	31	29																			30222	
582	1988	T	1	P	1987	T	1	1105	0436	30	30	29																			32320	
582	1989	T	1	P	1988	T	1	1105	0616	30	31	28																			30110	
538	1996	O	1	W	1996	O	1	1105	1808	10	22	01																			00320	
538	1996	T	1	W	1993	T	1	1105	1438	30	31	29																			30022	
538	1997	T	1	W	1996	T	1	1105	1940	30	28	28																			20023	
582	1998	T	1	P	1997	T	1	1105	2117	30	31	31																			00302	
582	1998	O	1	P	1998	O	1	1105	2130	10	05	00																			30000	
582	1999	T	1	P	1998	T	1	1105	2302	30	30	30																			20033	
538	2000	T	1	W	1999	T	1	1106	0030	30	32	32																			22223	
538	2001	T	1	W	2000	T	1	1106	0222	30	31	30																			22220	
582	2002	T	1	P	2001	T	1	1106	0405	30	31	28																				





REEL	FILM	LEGEND	PICTURE SEQUENCE DATA																								LVBSC				
								FRAME		GEOGRAPHICAL AREA COVERED																					
	PASS	M	C	S	PASS	M	C	DATE	TIME	TI	US	+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
540	2223	T	1	W	2222	T	1	1121	1230	30	28	28				4	5				10										00332
540	2224	D	1	W	2224	O	1	1121	1559	30	06	06				4															01300
540	2224	T	1	W	2223	T	1	1121	1548	30	29	29			2	3															30300
585	2225	T	1	P	2224	T	1	1121	1725	30	28	27				3					9										00033
585	2225	D	1	P	2225	O	1	1121	1740	30	07	07				3															10301
540	2227	T	1	W	2227	T	1	1121	2052	30	32	32	1	2							8										03323
540	2228	T	1	W	2228	T	1	1121	2233	30	29	29	1	2							8										00322
540	2237	D	1	W	2237	O	1	1122	1340	30	10	11					4	5													01323
540	2251	D	1	W	2251	O	1	1123	1306	30	16	16					4	5													00223
540	2252	O	1	W	2252	O	1	1123	1452	30	14	14					4	5													03300
540	2265	O	1	W	2265	O	1	1124	1233		44	44					4	5													00200
540	2266	O	1	W	2266	O	1	1124	1417	30	16	16					4														30020
540	2279	O	1	W	2279	O	1	1125	1158	30	16	16																			00000
540	2280	O	1	W	2280	O	1	1125	1343	30	16	16																			00000
585	2301	D	1	P	2301	O	1	1127		30	00	00																			00000
585	2310	D	1	P	2310	O	1	1127		30	00	00				3															00000
585	2310	D	1	P	2310	O	1	1127		30	00	00				3															00000
585	2314	D	1	P	2314	D	1	1127			00	00				3															00000
585	2328	D	1	P	2328	O	1	1128	2223	30	00	00																			00000
540	2336	T	1	W	2310	T	1	1129	1602	30	20	11																			00000
585	2371	D	1	P	2371	D	1	1201	2226	30	14	15				3															20333
585	2385	D	1	P	2385	O	1	1202	2153	30	17	17			3																30302
540	2372	T	1	W	2351	T	1	1130		30	00	00																			00000
540	2373	T	1	W	2392	T	1	1203	0937	30	30	30						7						12							20303
585	2394	T	1	P	2393	T	1	1203	1118	30	29	29					6	7					12								30320
585	2395	T	1	P	2394	T	1	1203	1258	30	32	32					6					11									30220
540	2377	D	1	W	2397	D	1	1203	1759	30	10	10				4															00000
540	2397	T	1	W	2396	T	1	1203	1615	30	31	31					5	6				11									30223
585	2399	T	1	P	2398	T	1	1203	1937	30	14	14																			00000
585	2399	O	1	P	2399	O	1	1203	2120	30	10	10				3	4														30100
585	2400	T	1	P	2400	T	1	1203	2255	30	32	32			2	3															30200
585	2413	O	1	P	2413	D	1	1204	2047	10	05	05				3	4														00101
585	2413	T	1	P	2402	T	1	1204		30	00	00																			00000
585	2414	O	1	P	2414	O	1	1204	2232	30	12	12			3						9										00233
540	2421	T	1	W	2419	T	1	1205	0651	30	31	31																			00000
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[illegible]





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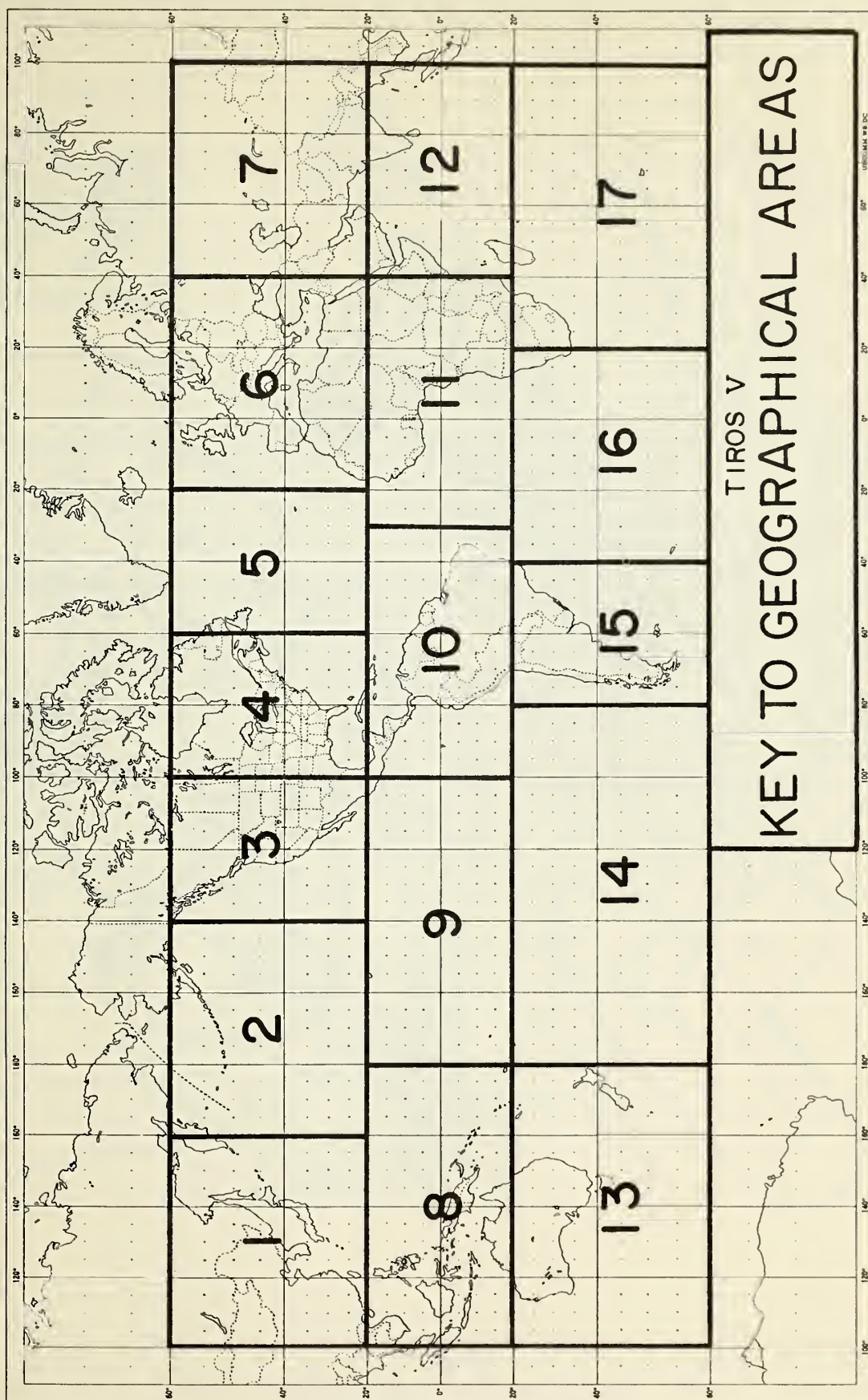








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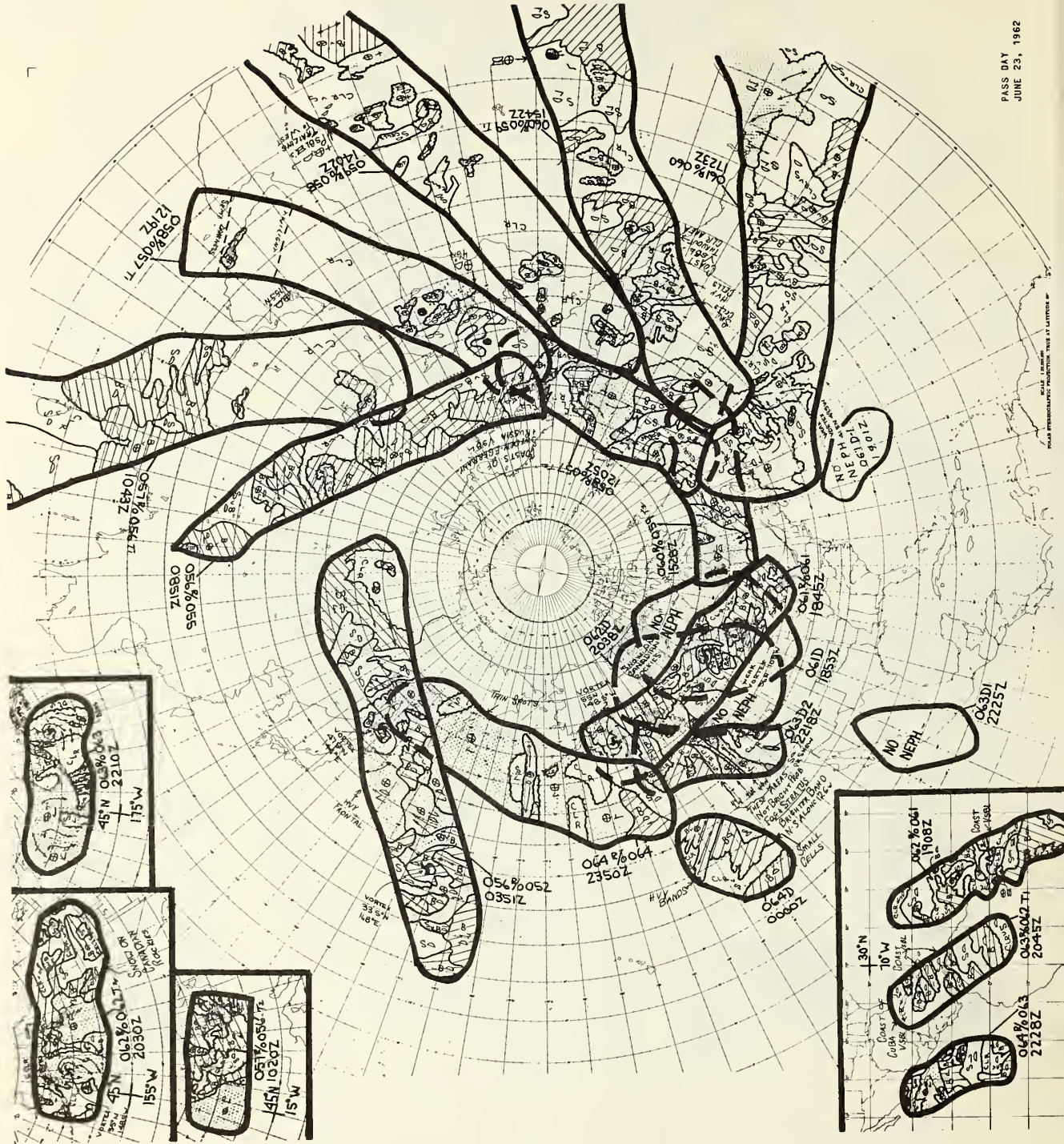






















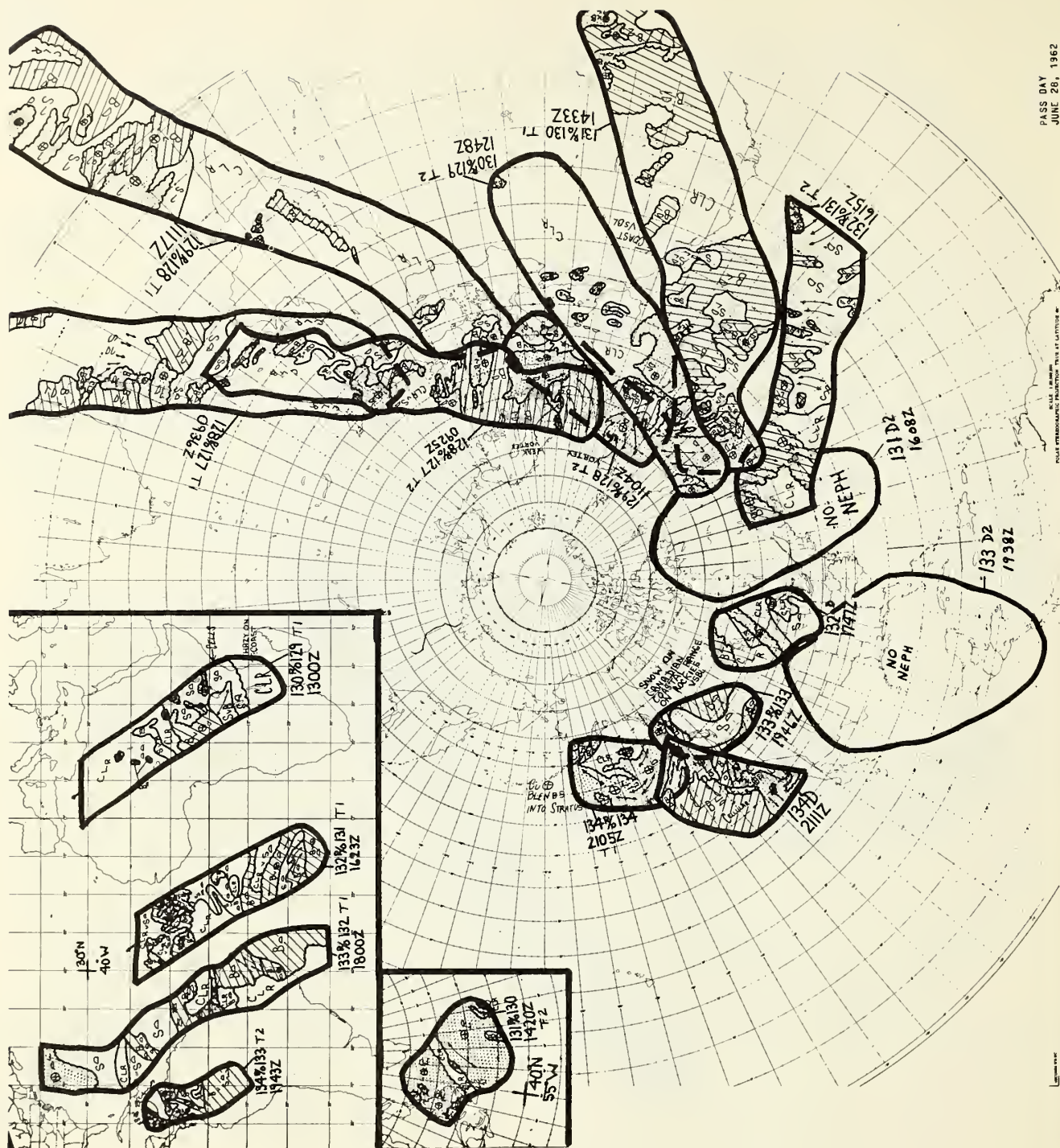




PART 2 OF 2





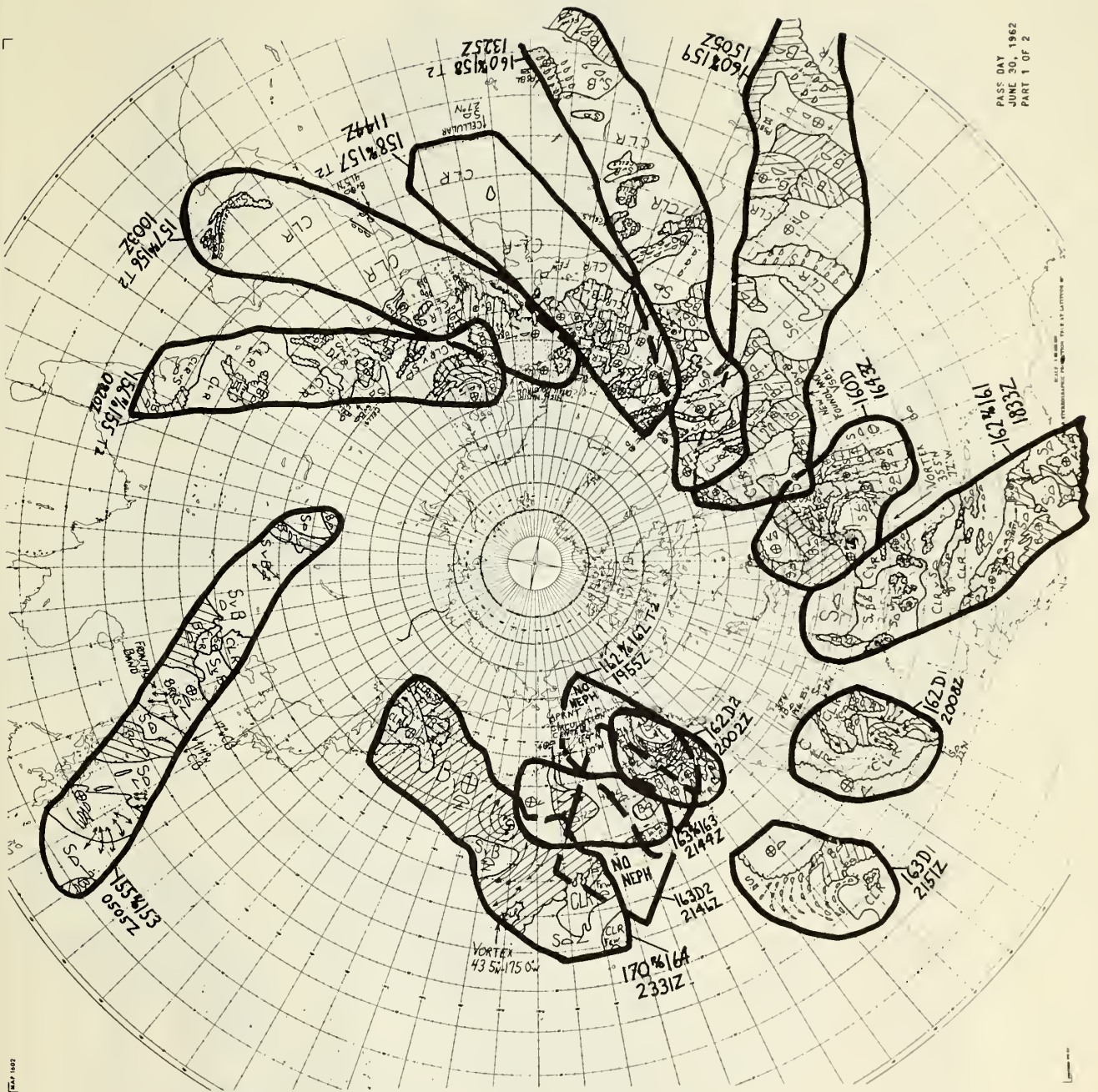












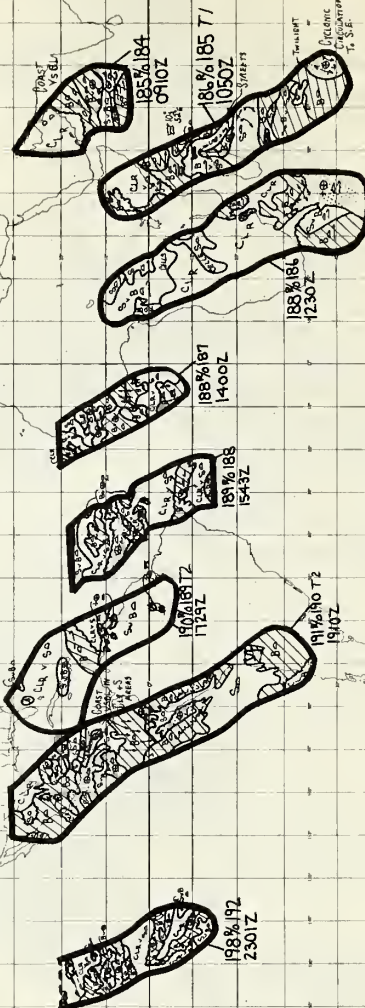
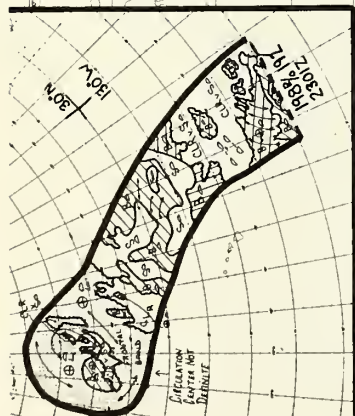
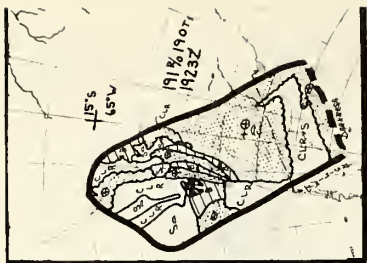
PAGE 01  
JUNE 30, 1962  
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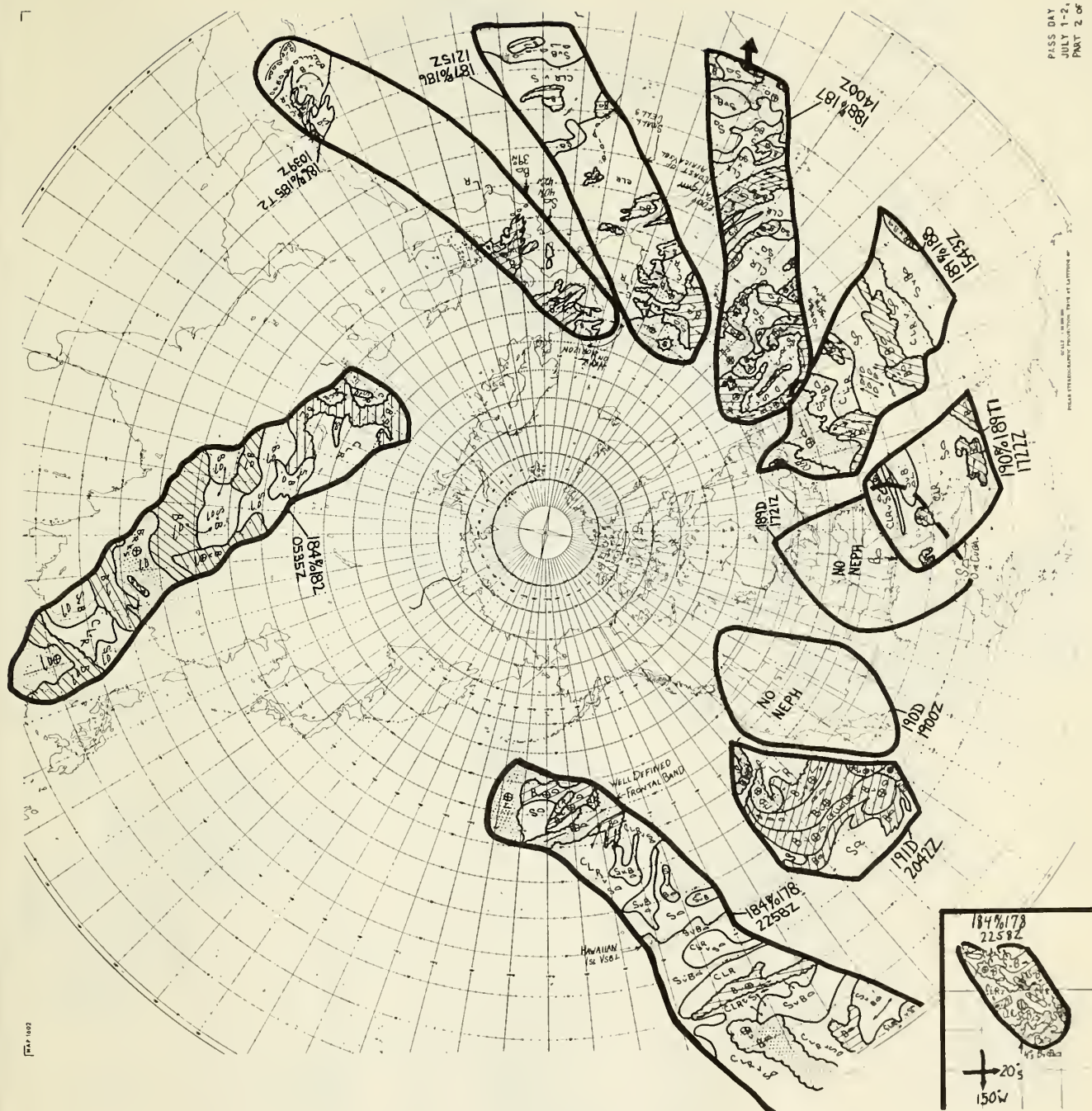








PASS DAY  
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PART 1 OF 2





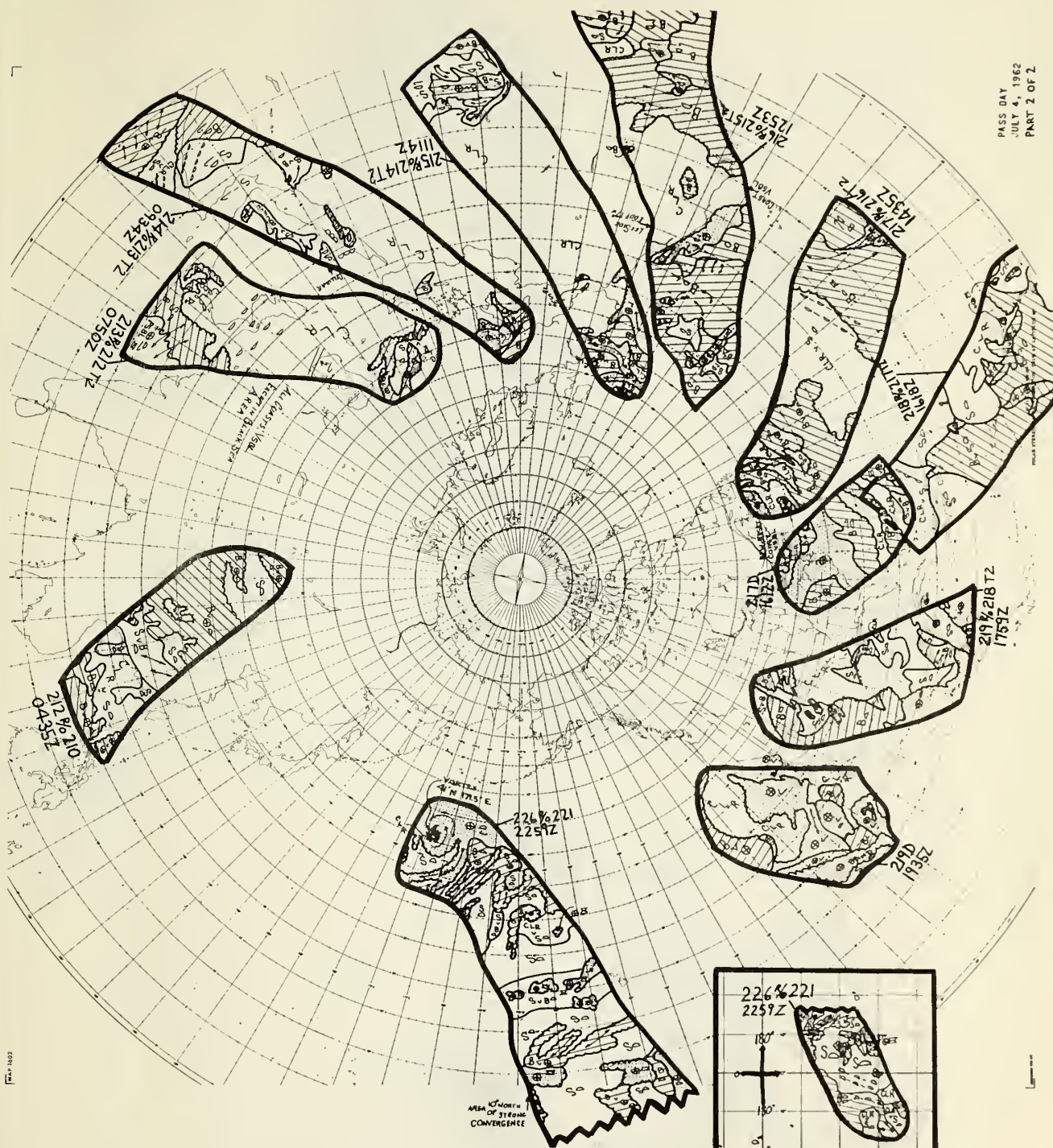




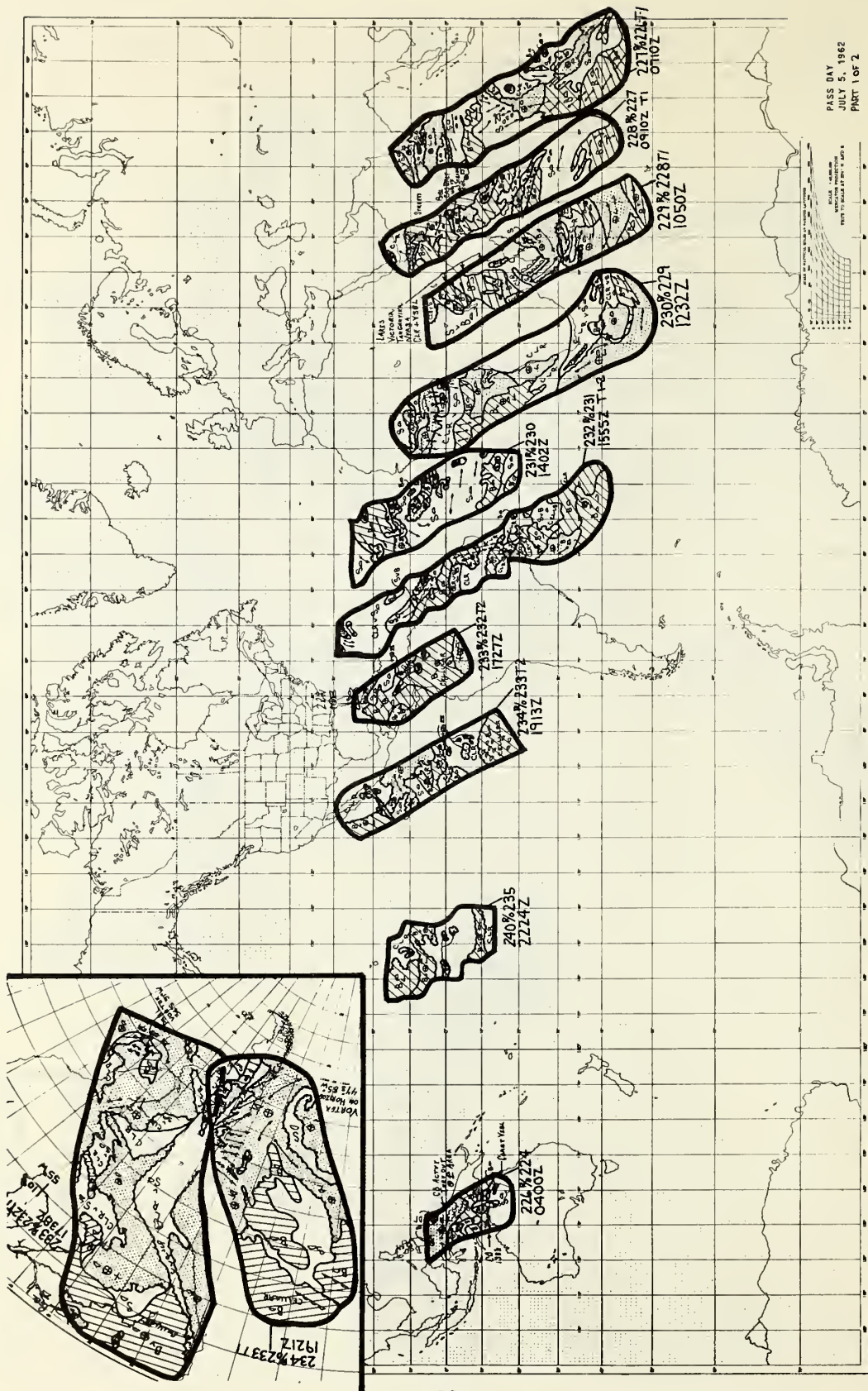


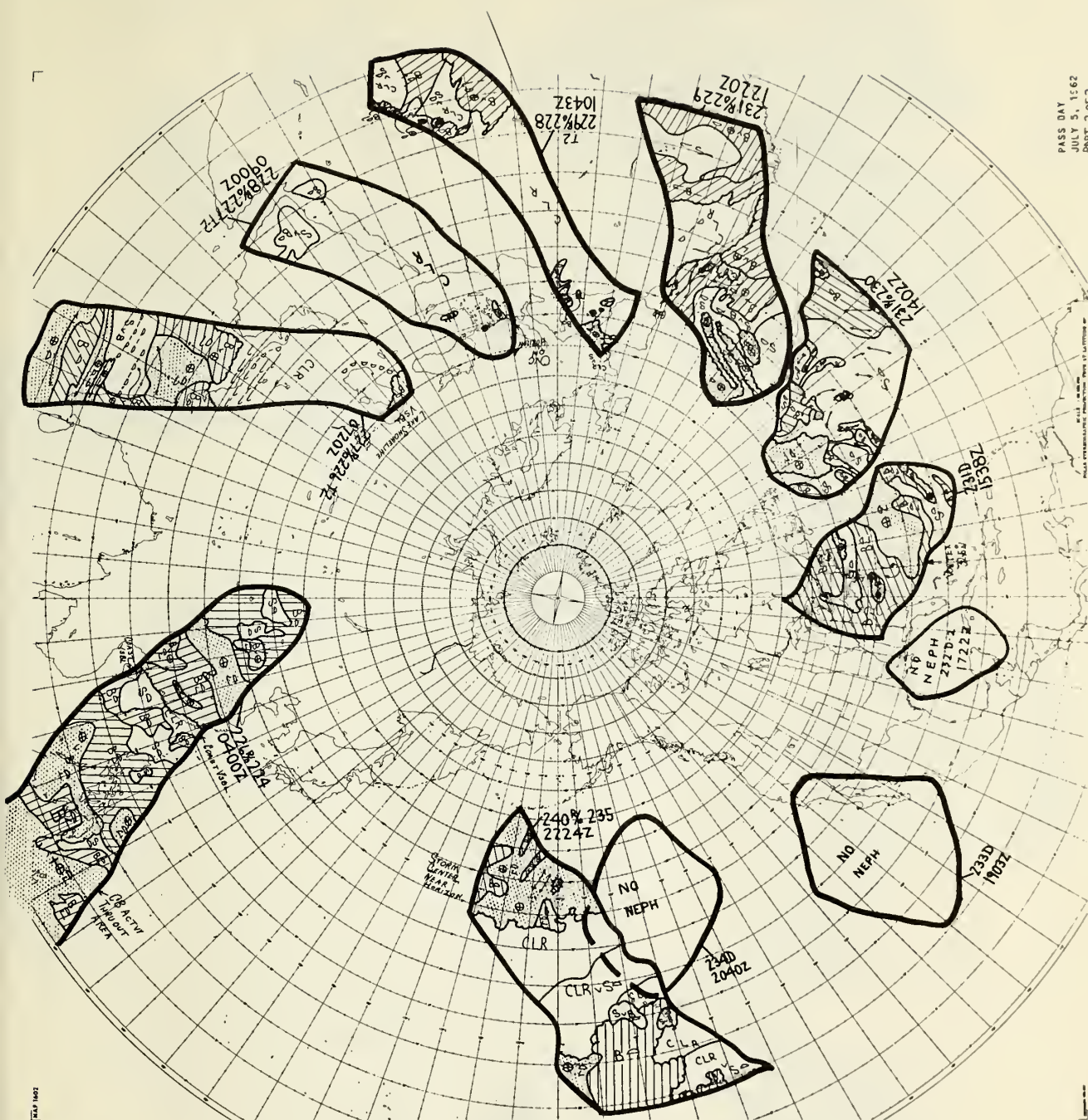




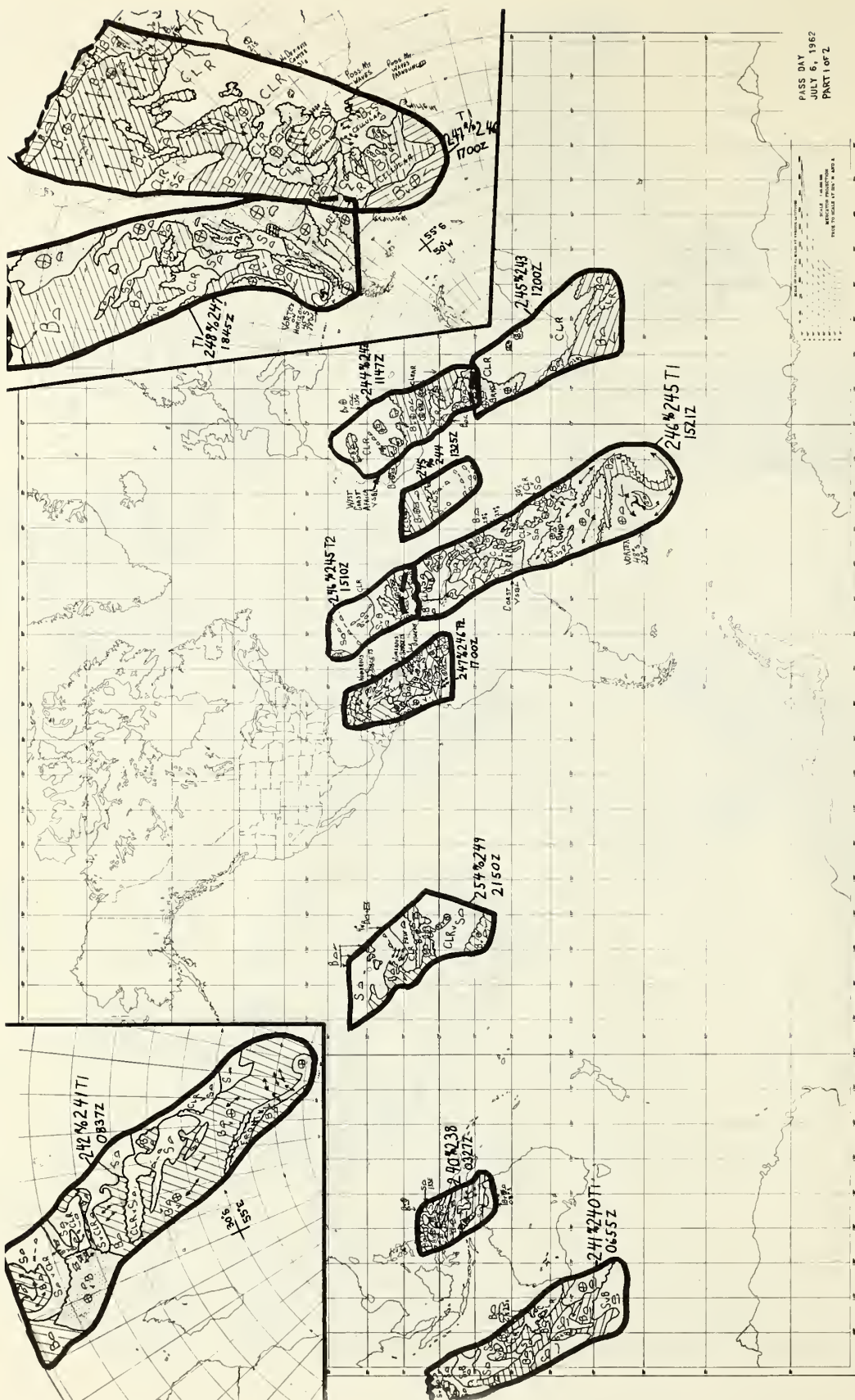






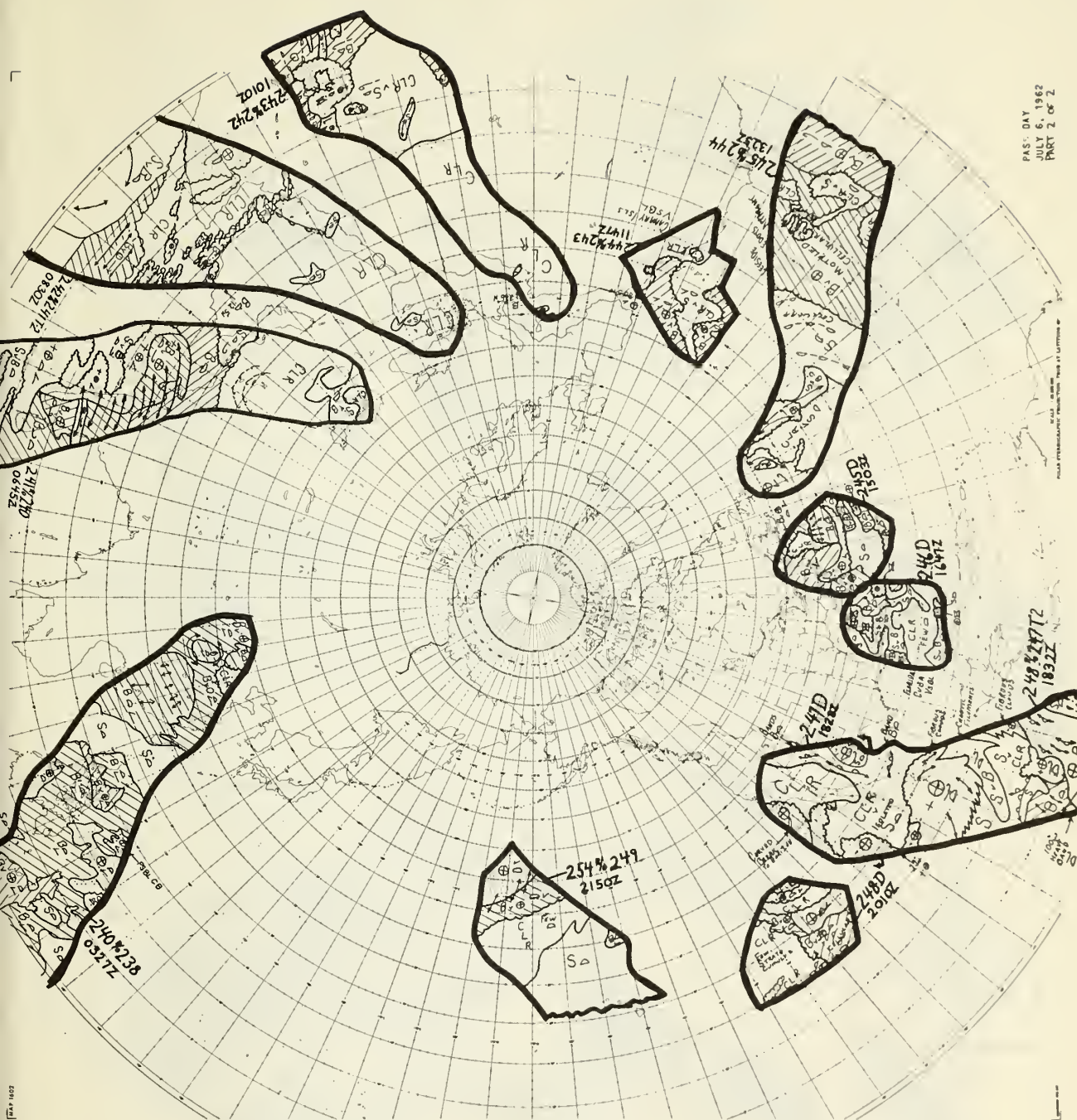






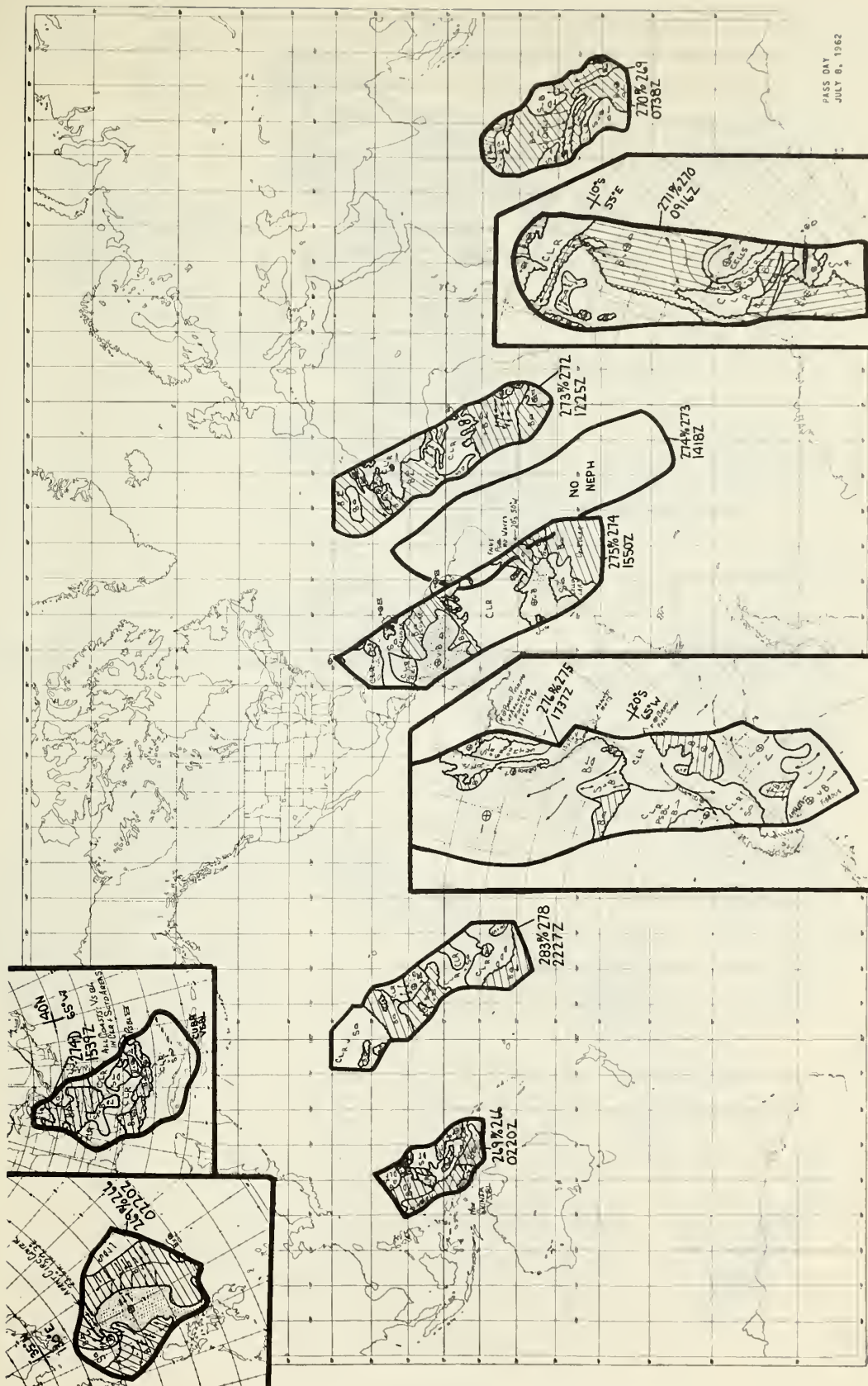
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PART 1 of 2







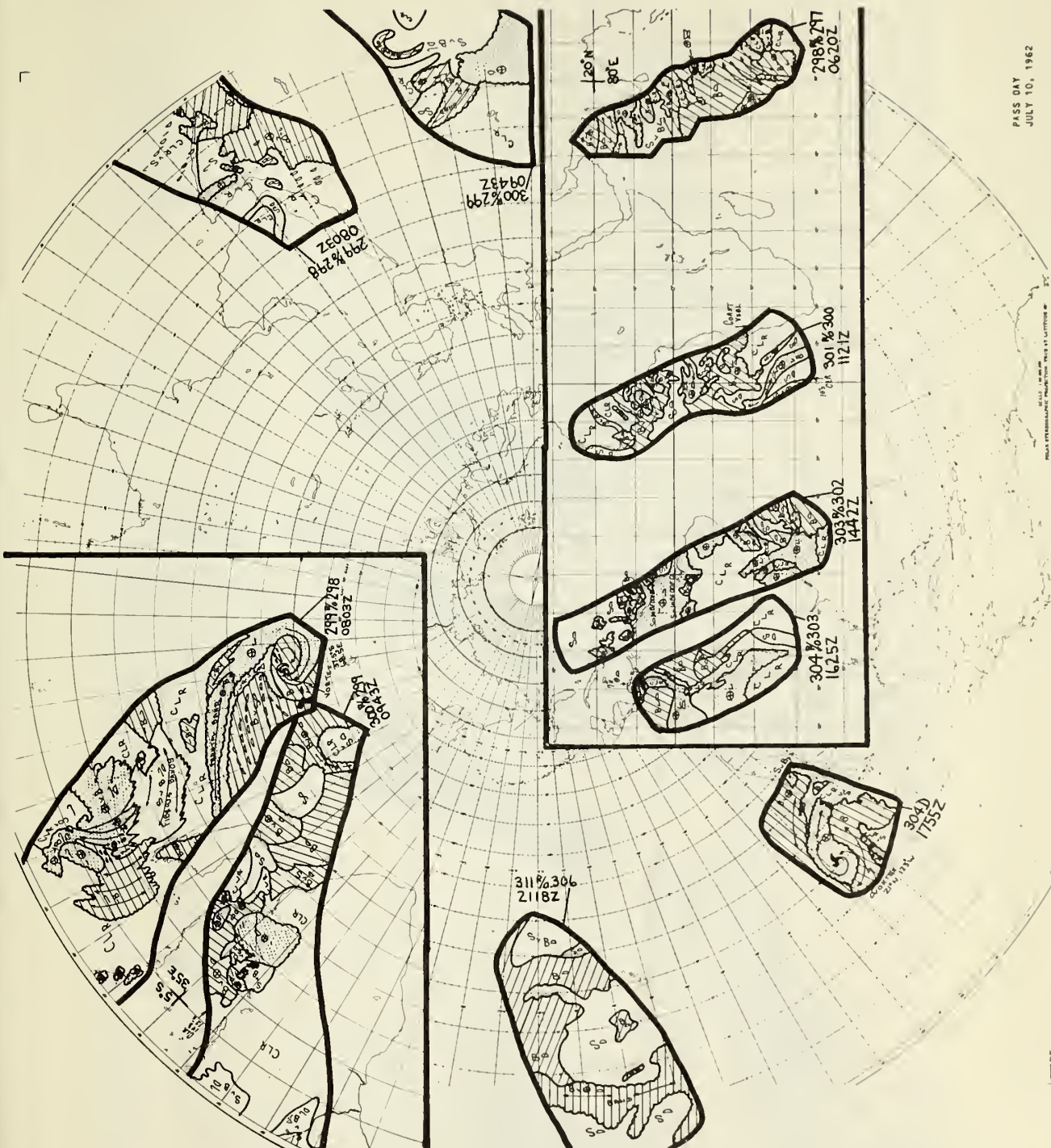




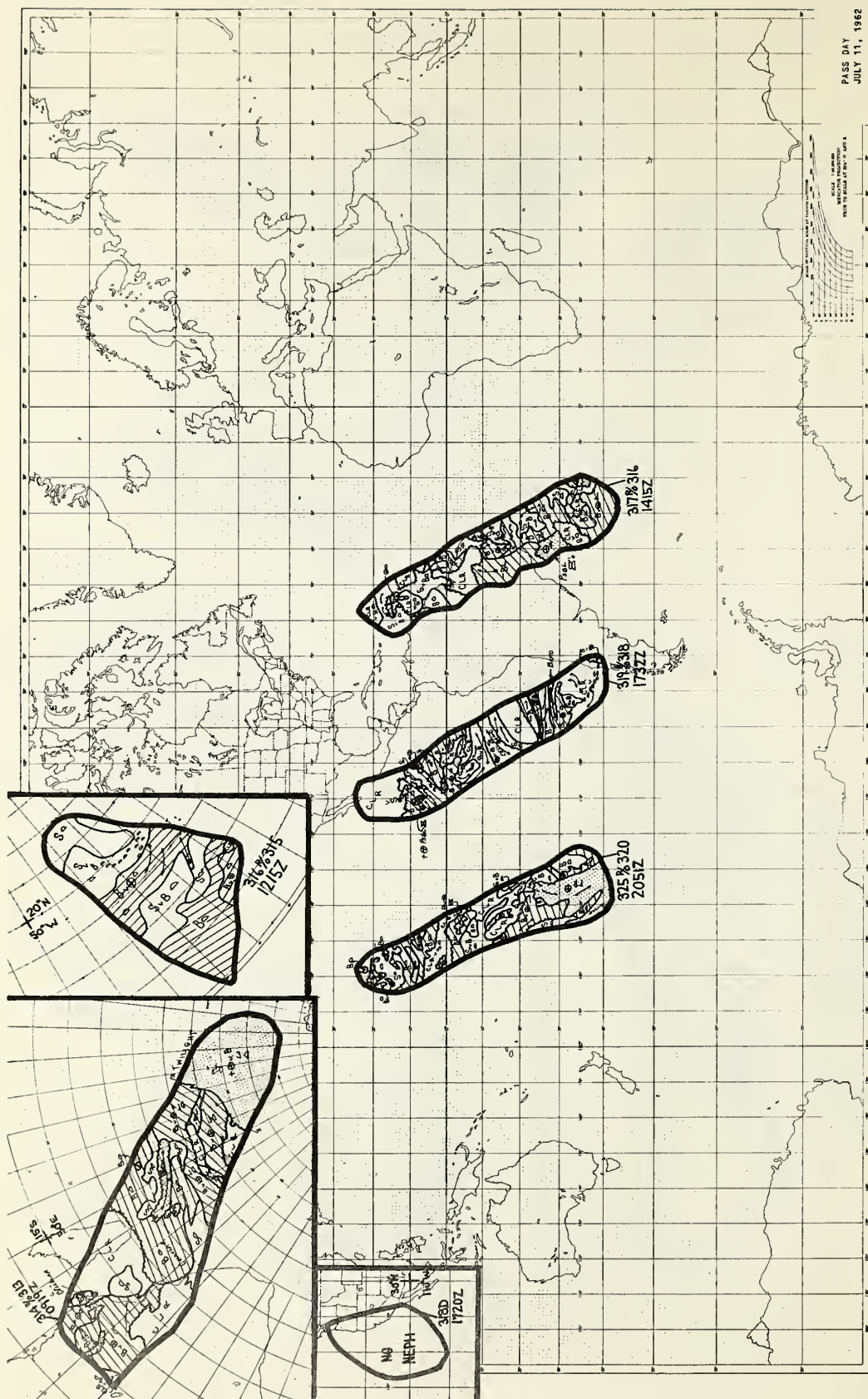
PASS DAY  
JULY 8, 1962









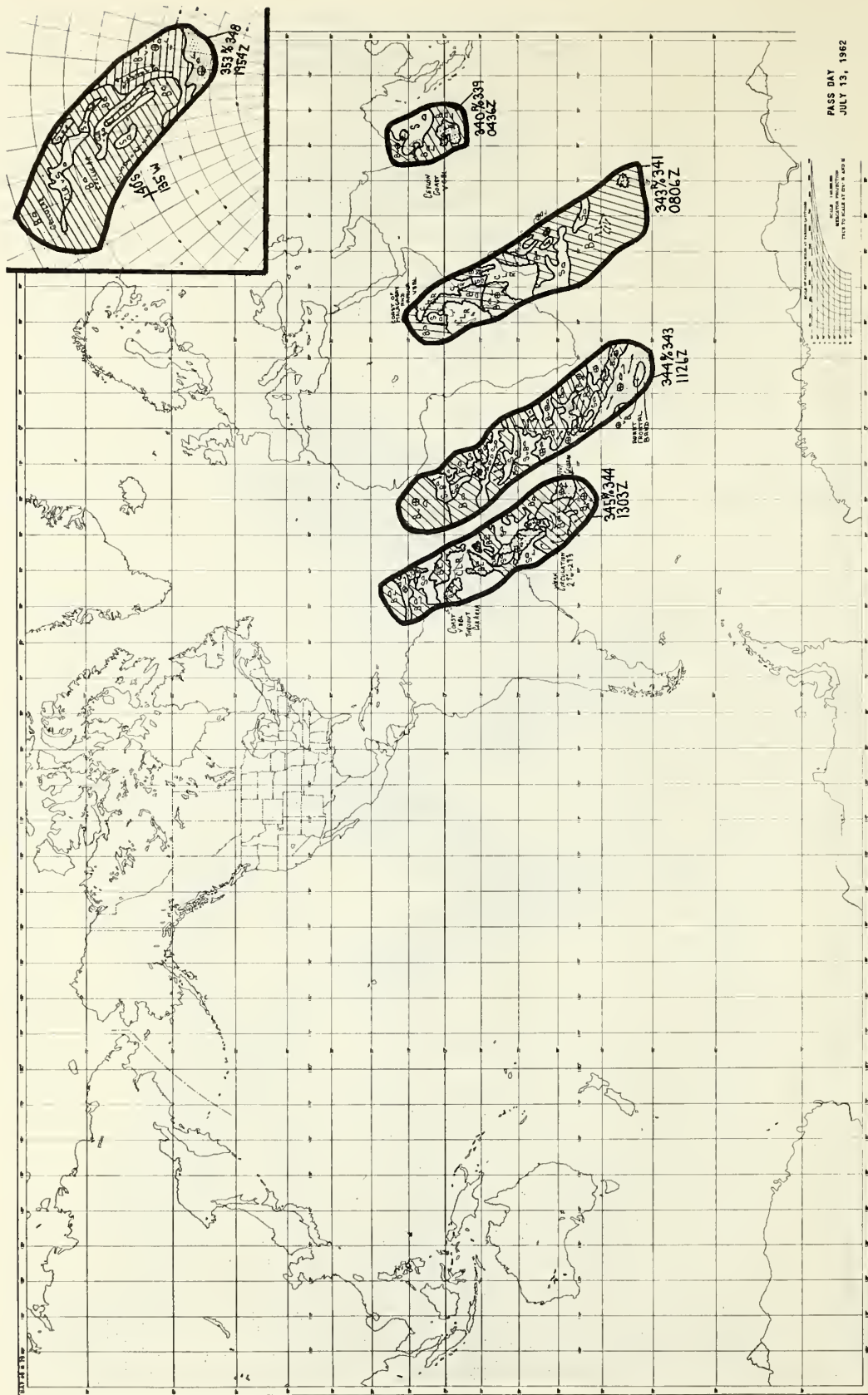


PASS DAY  
JULY 11, 1962





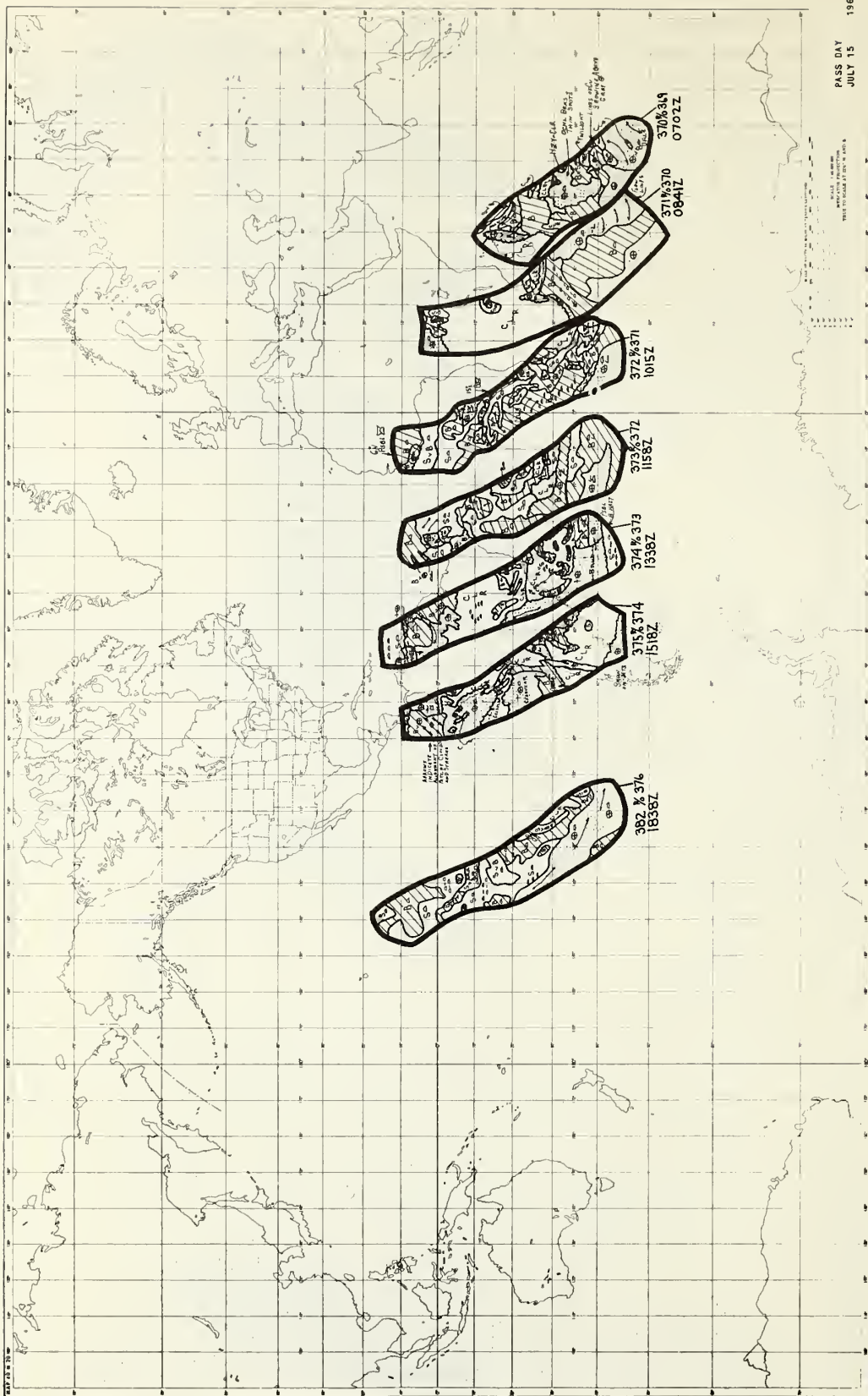
PASS DAY  
JULY 12, 1962

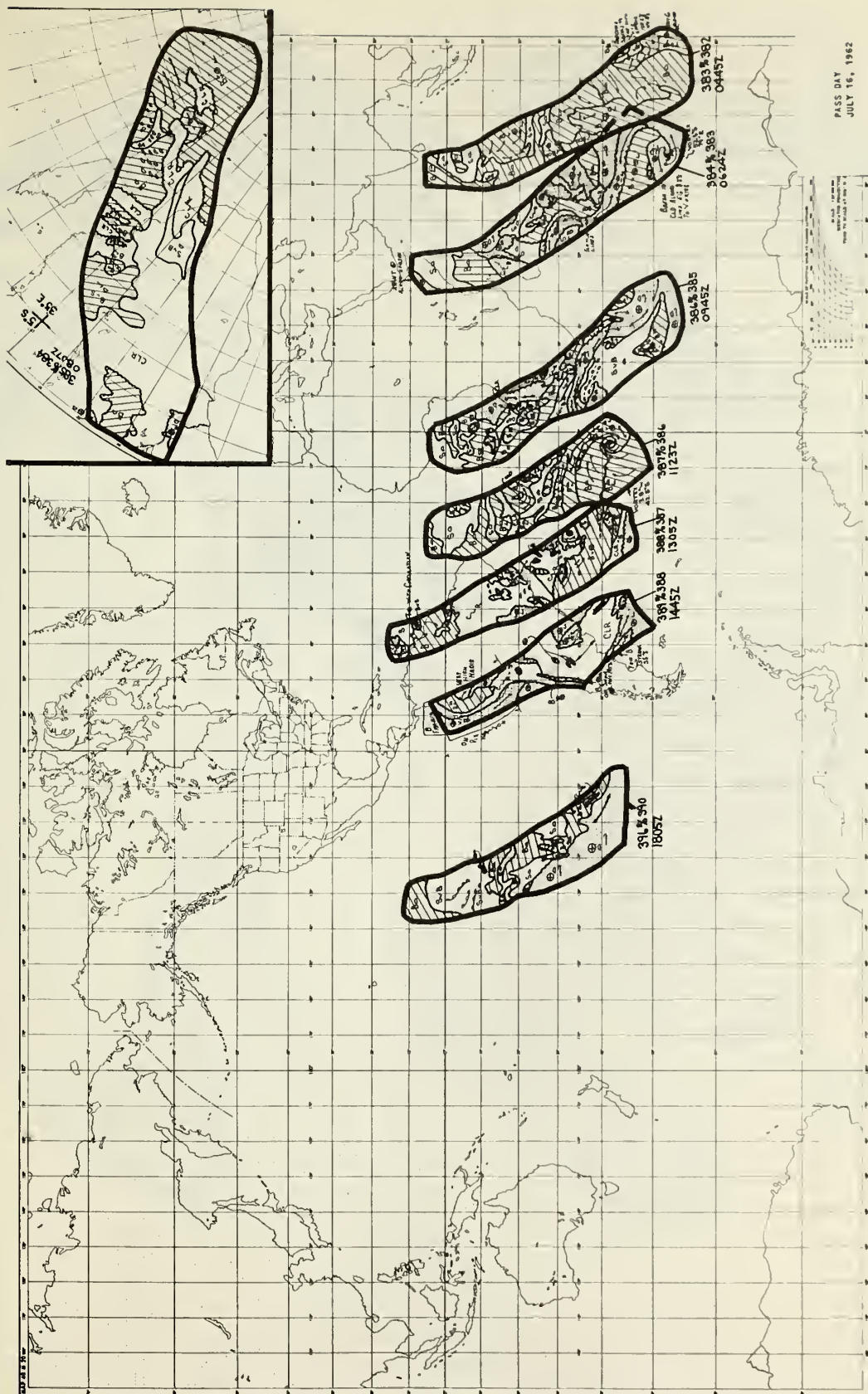


PASS DAY  
JULY 13, 1962









PASS DAY  
JULY 16, 1962

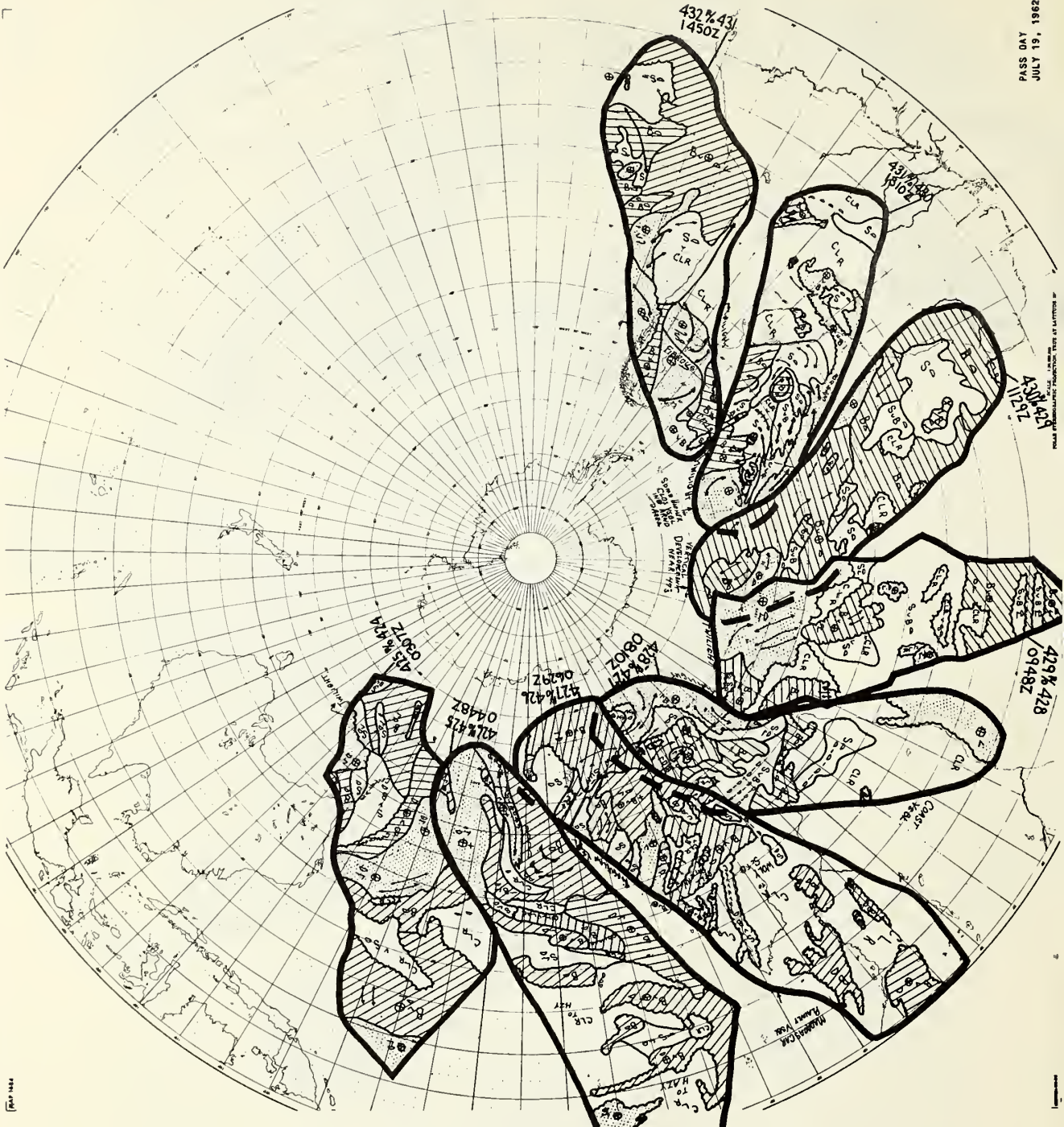




PASS DAY  
JULY 11, 1962



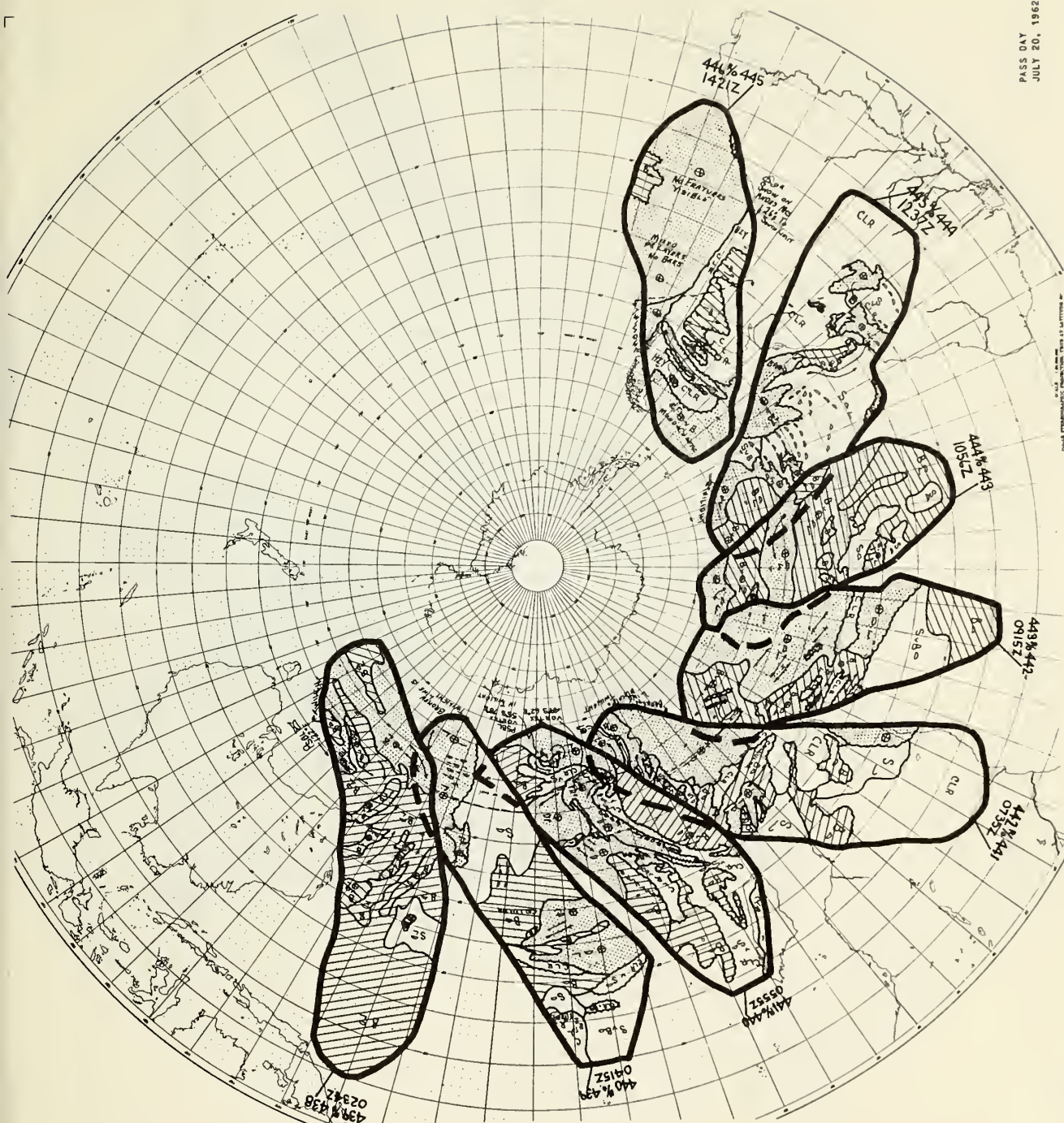




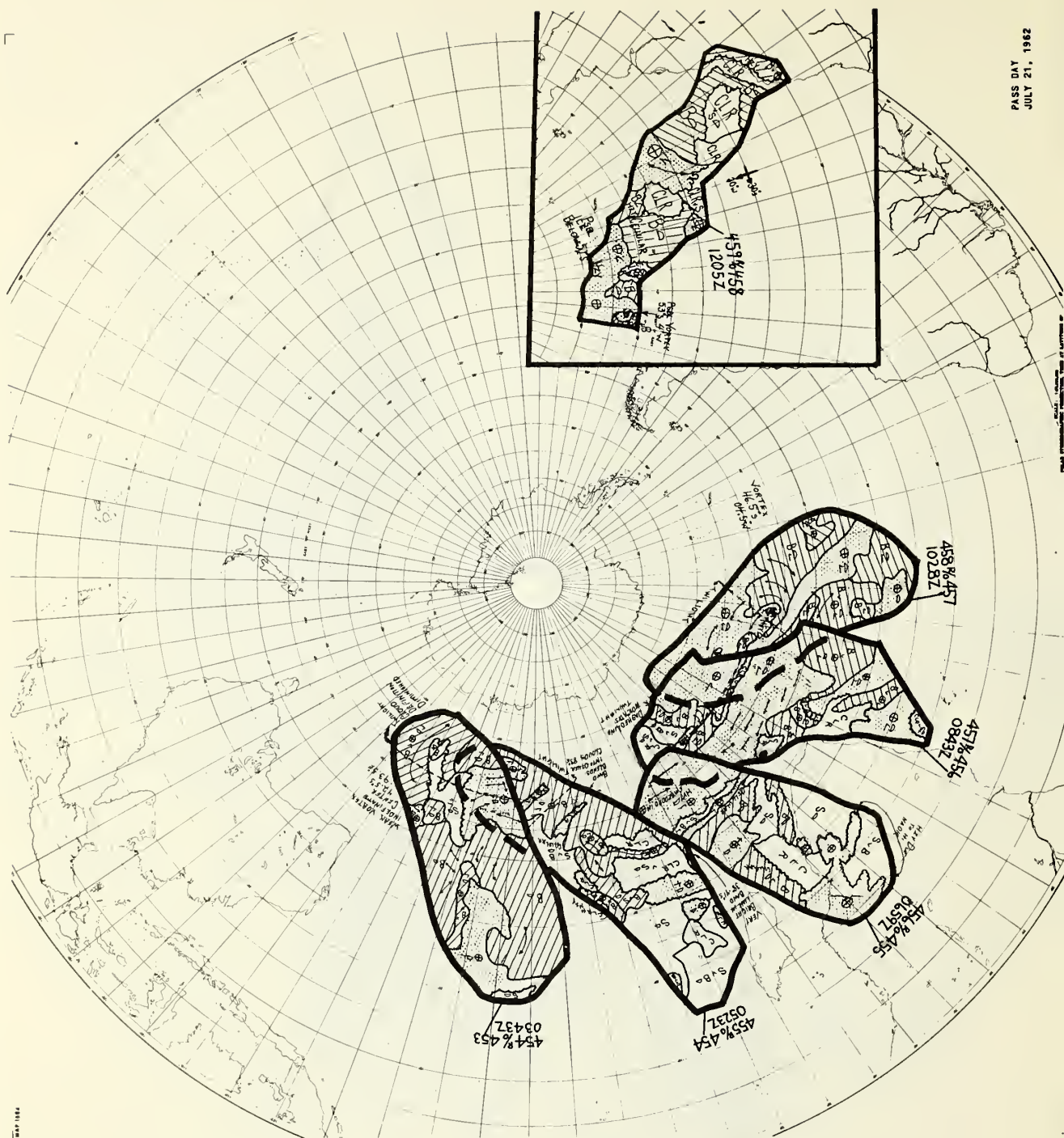
PASS DAY  
JULY 19, 1962

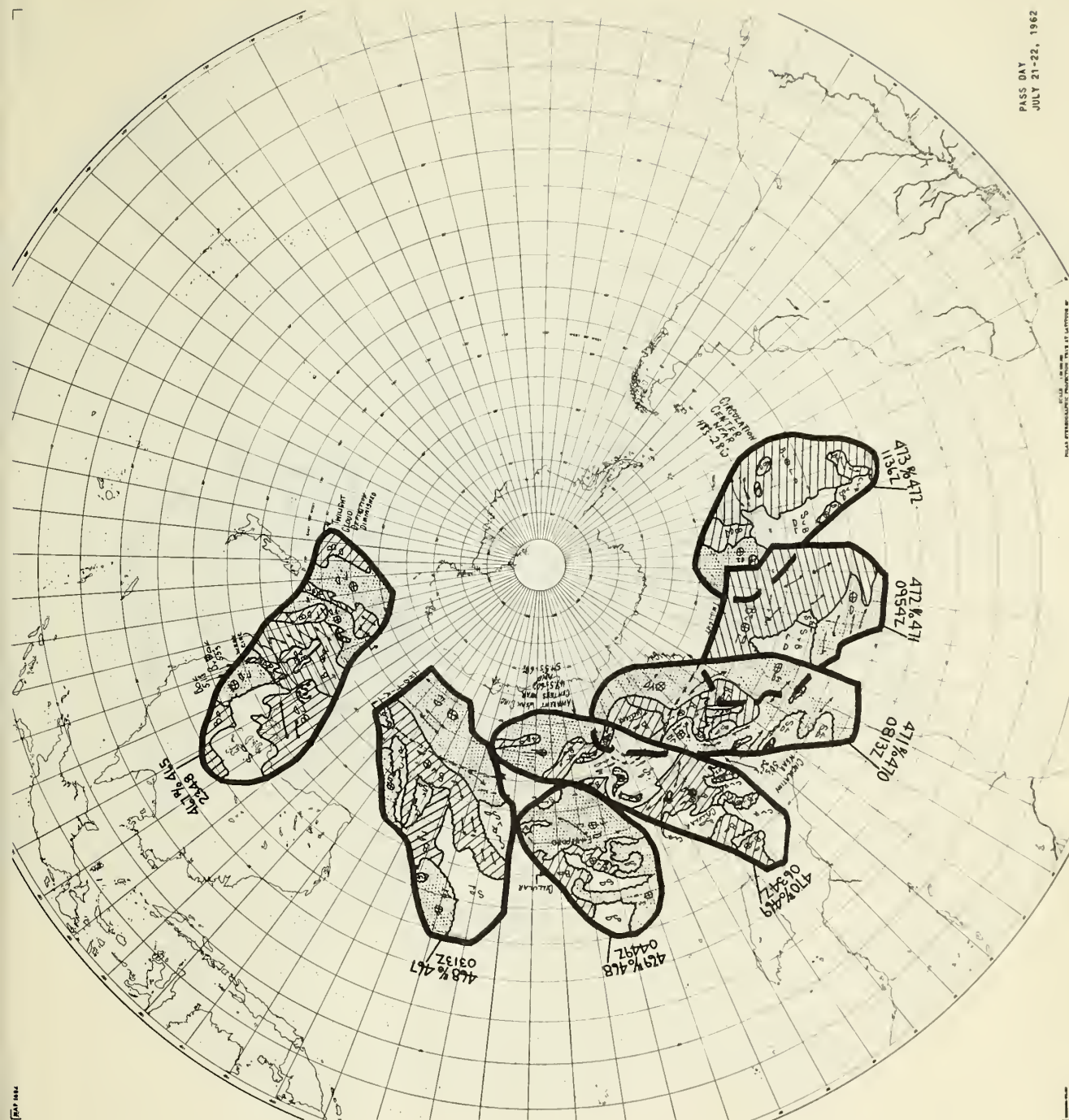
READ INFORMATION: TOPIC: TIME OF DAY: 1150Z



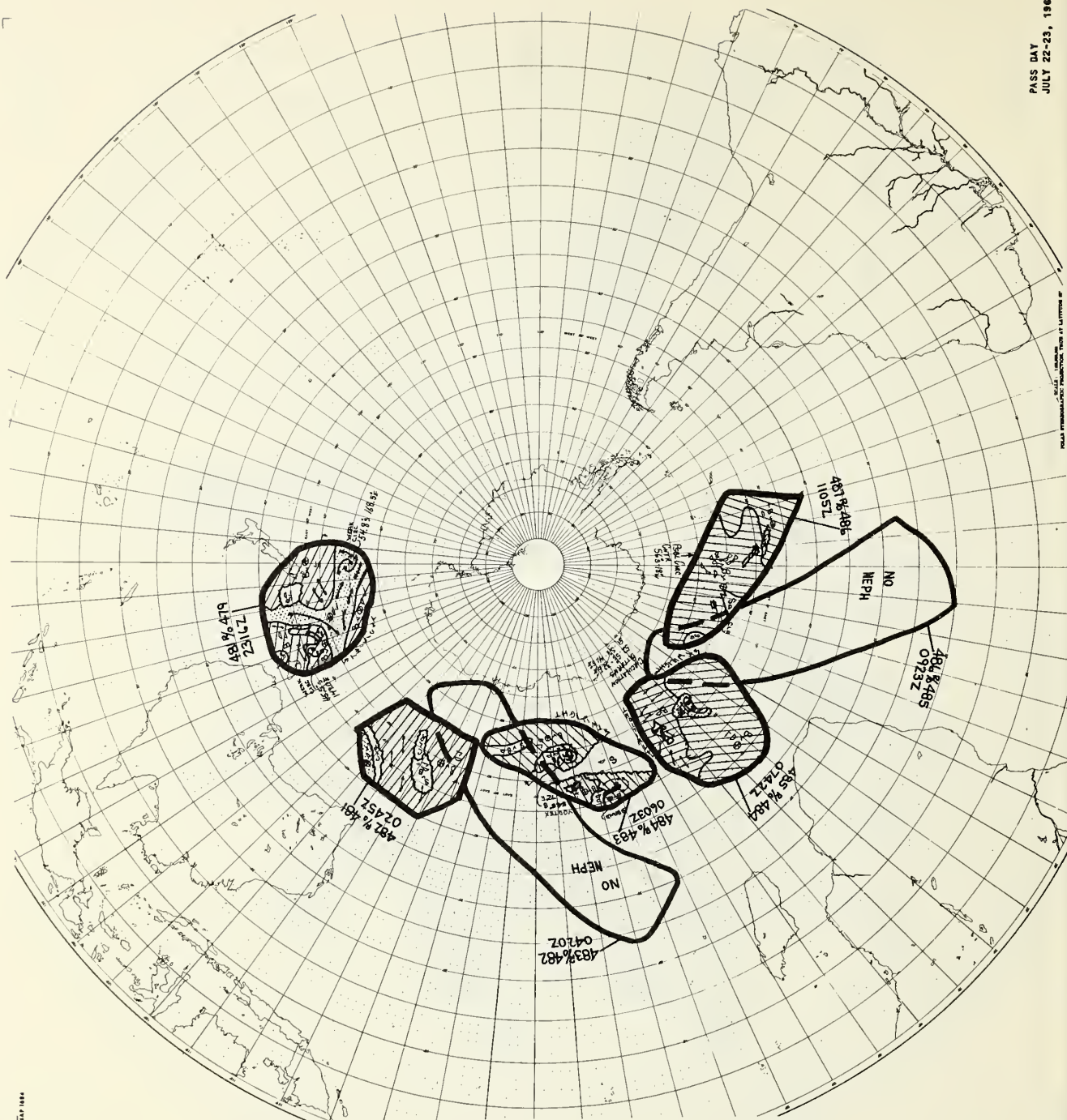






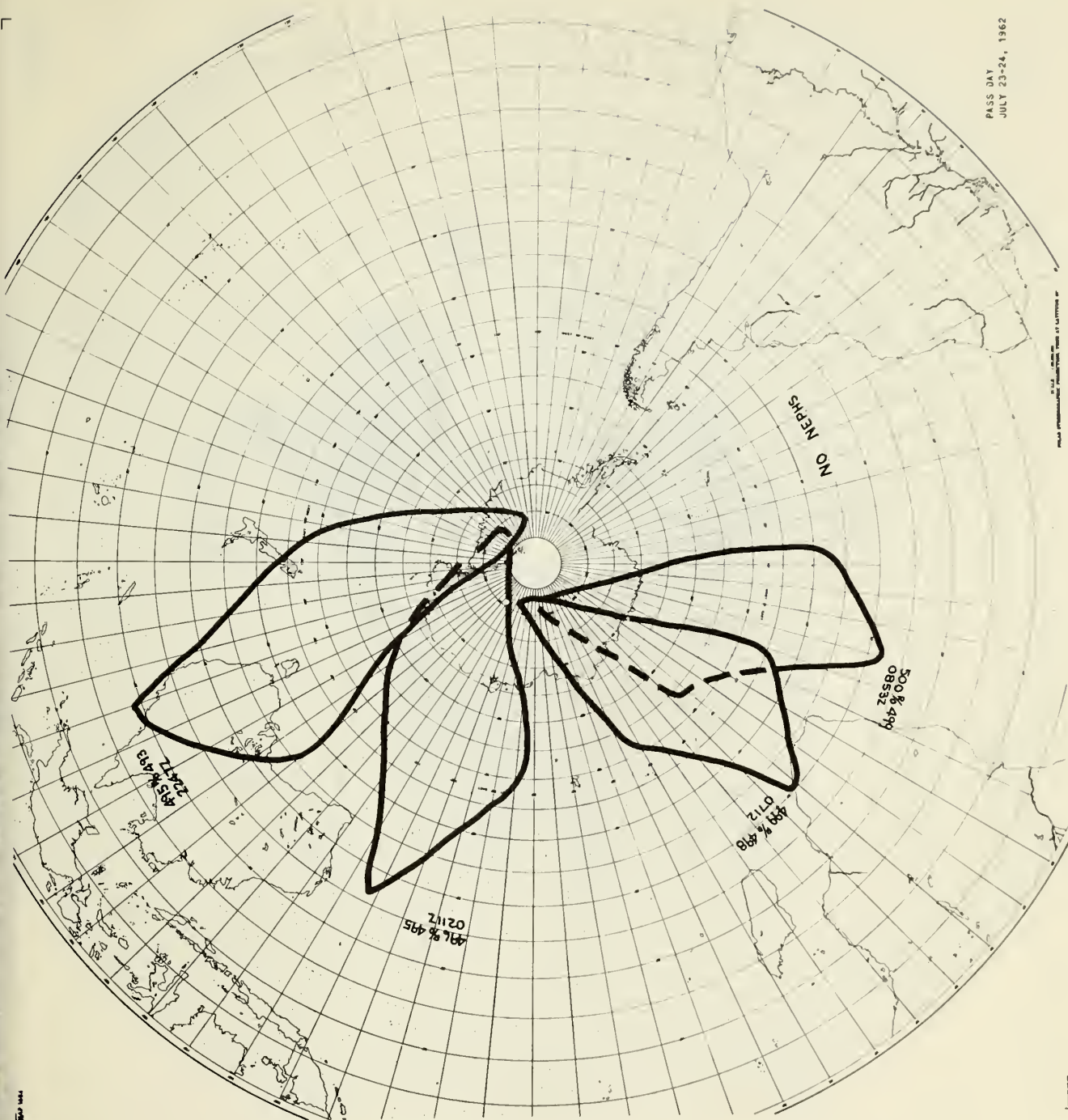


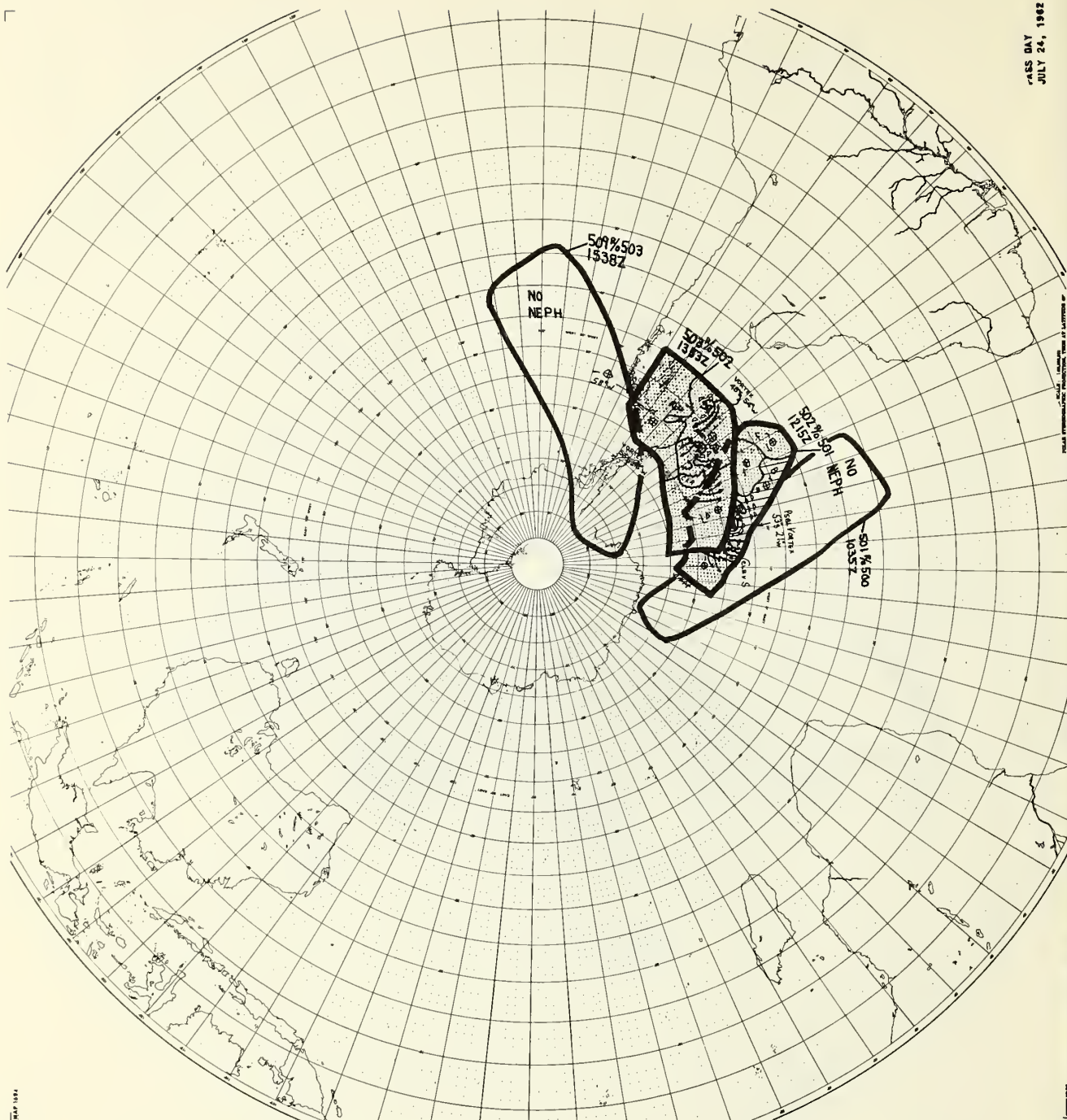




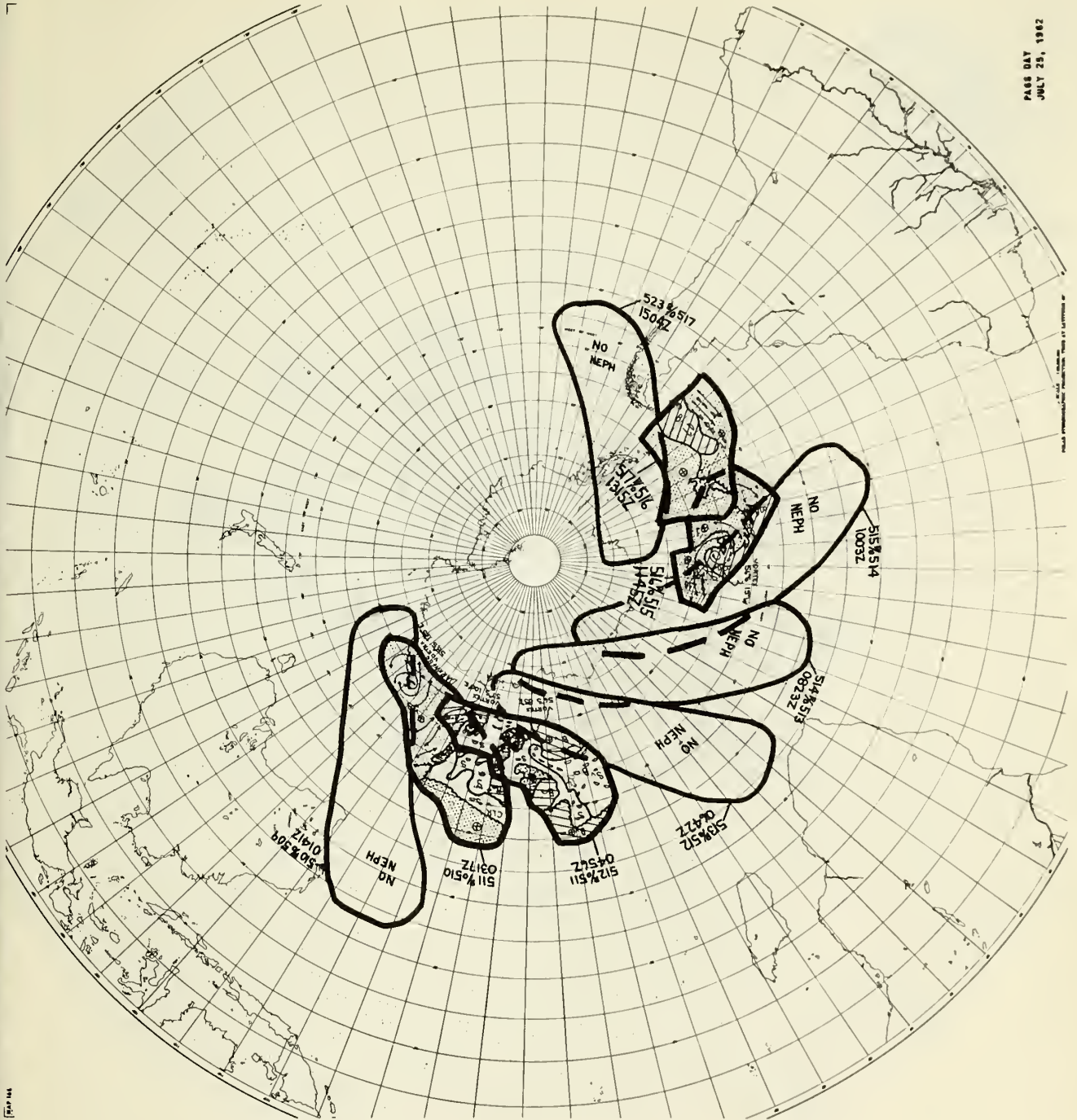


PASS DAY  
JULY 23-24, 1962





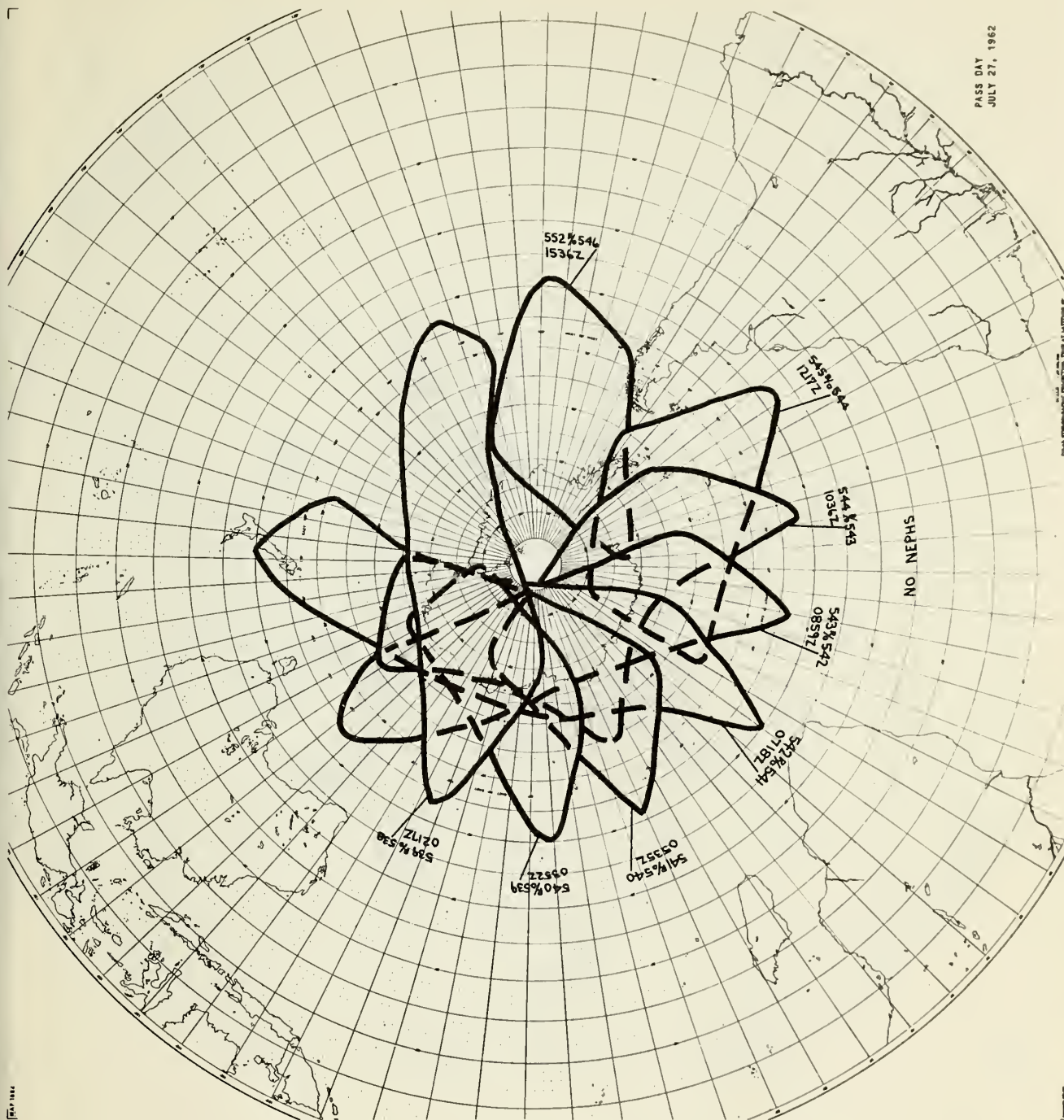






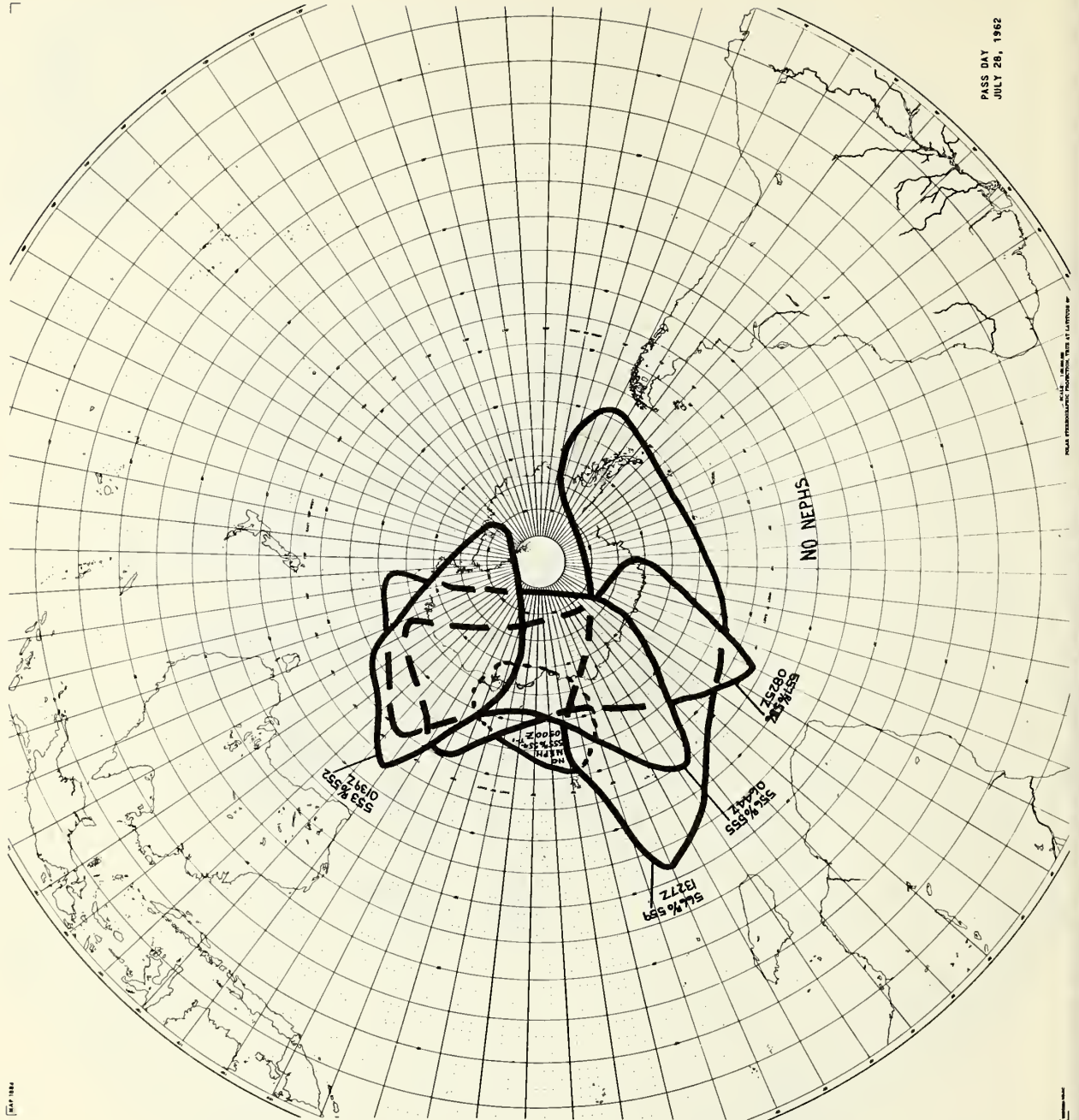


PASS DAY  
JULY 27, 1962



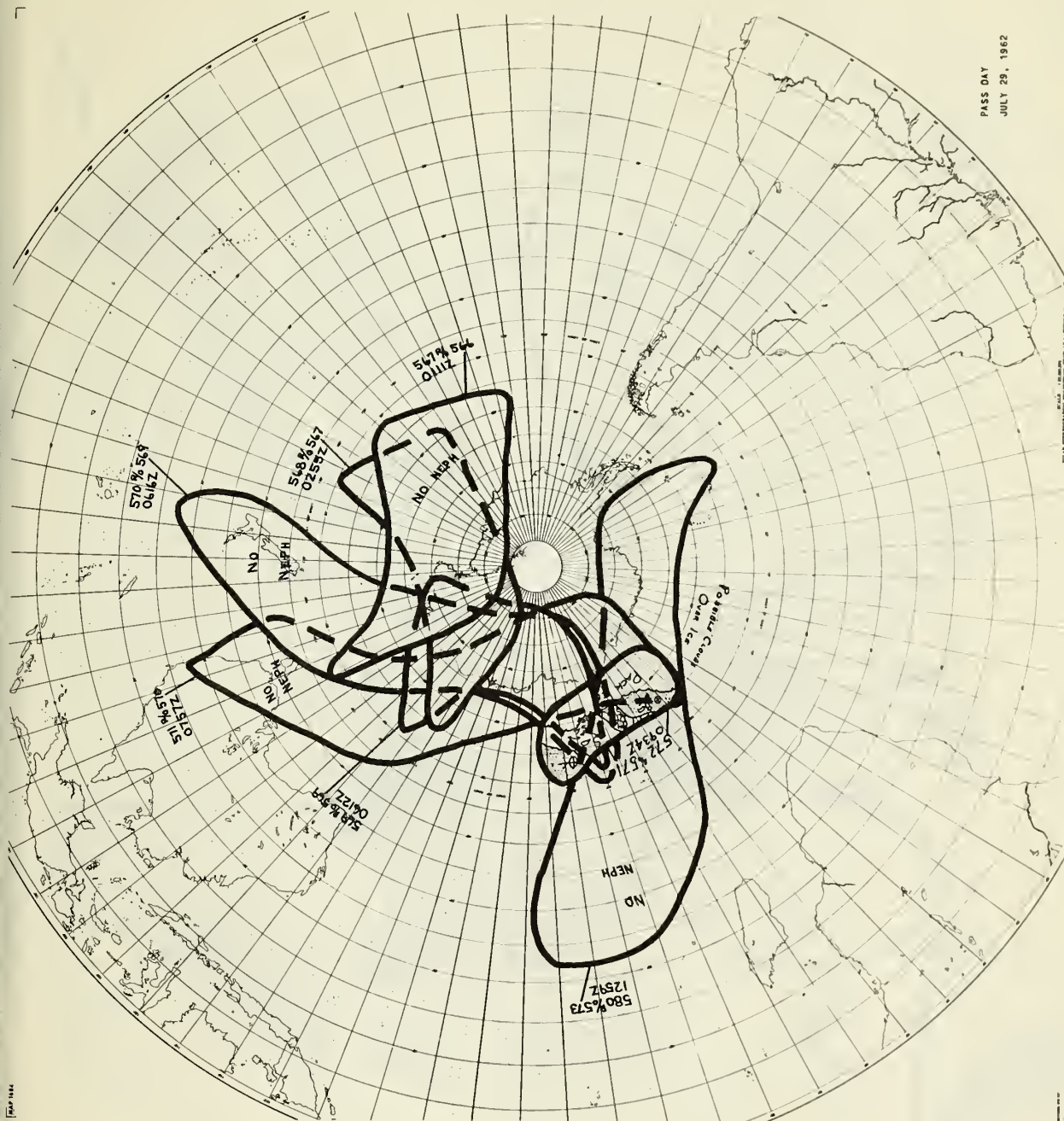


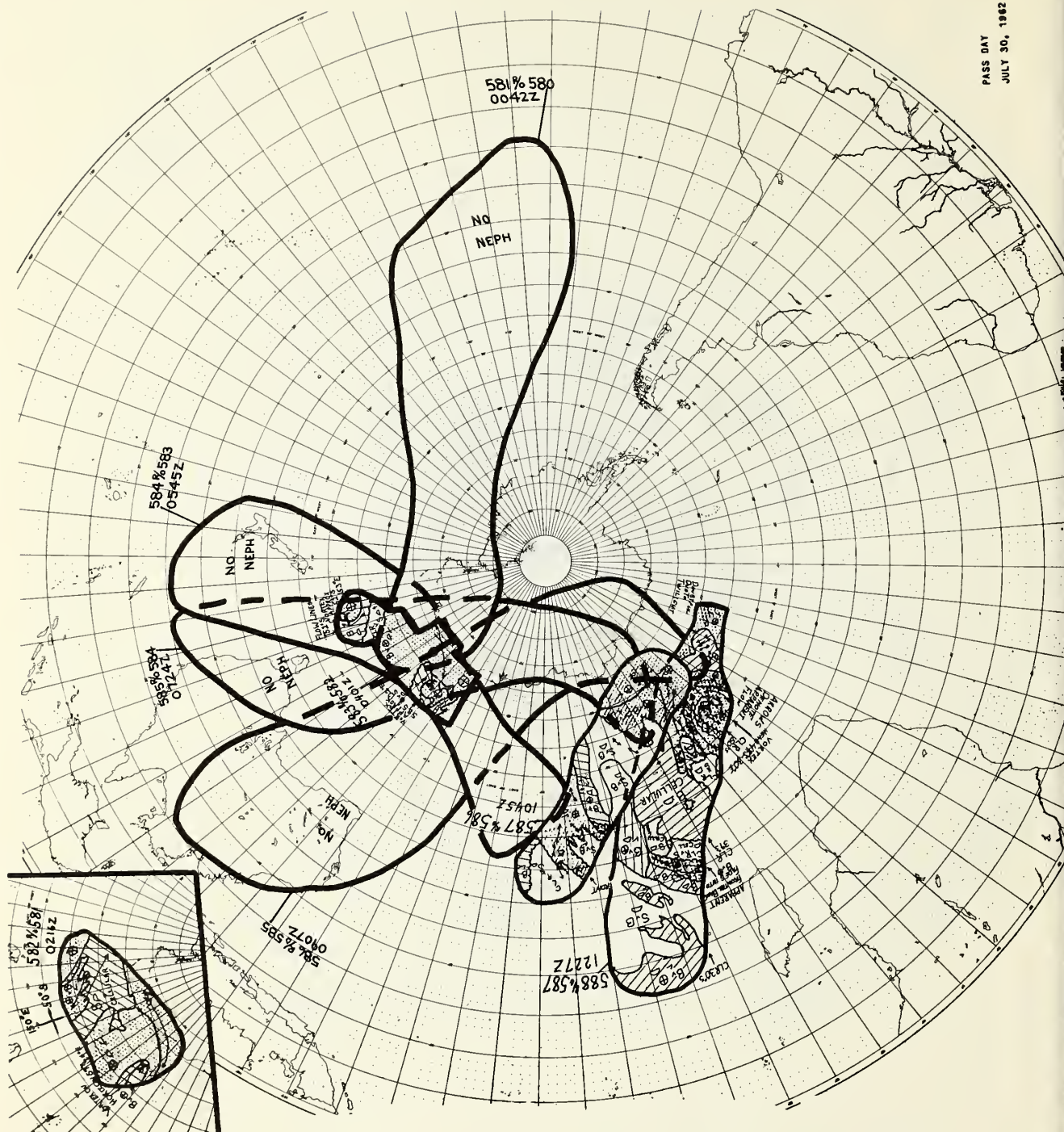
PASS DAY  
JULY 28, 1962



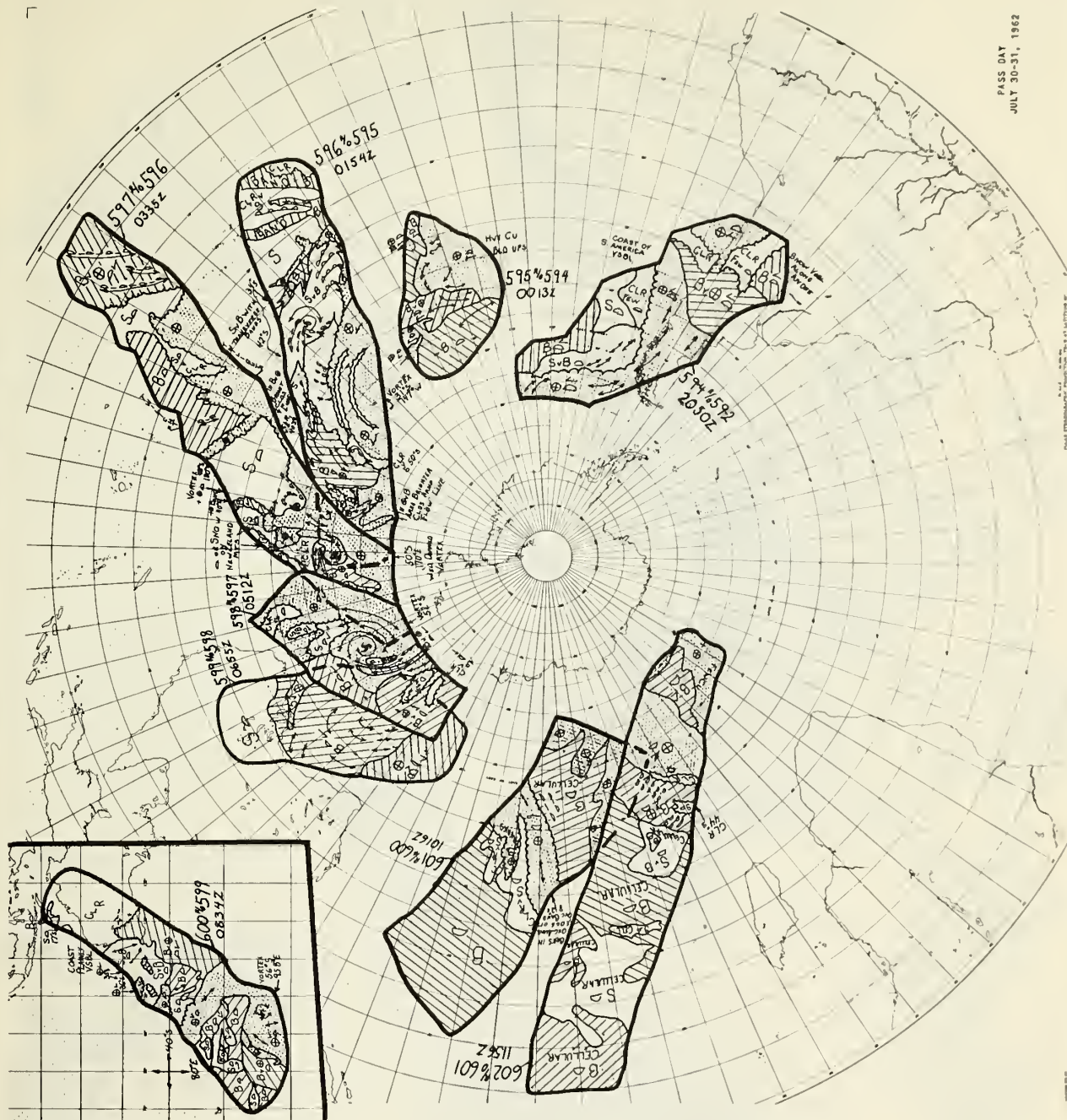


DATE: 11/11/2011 11:11:11 AM



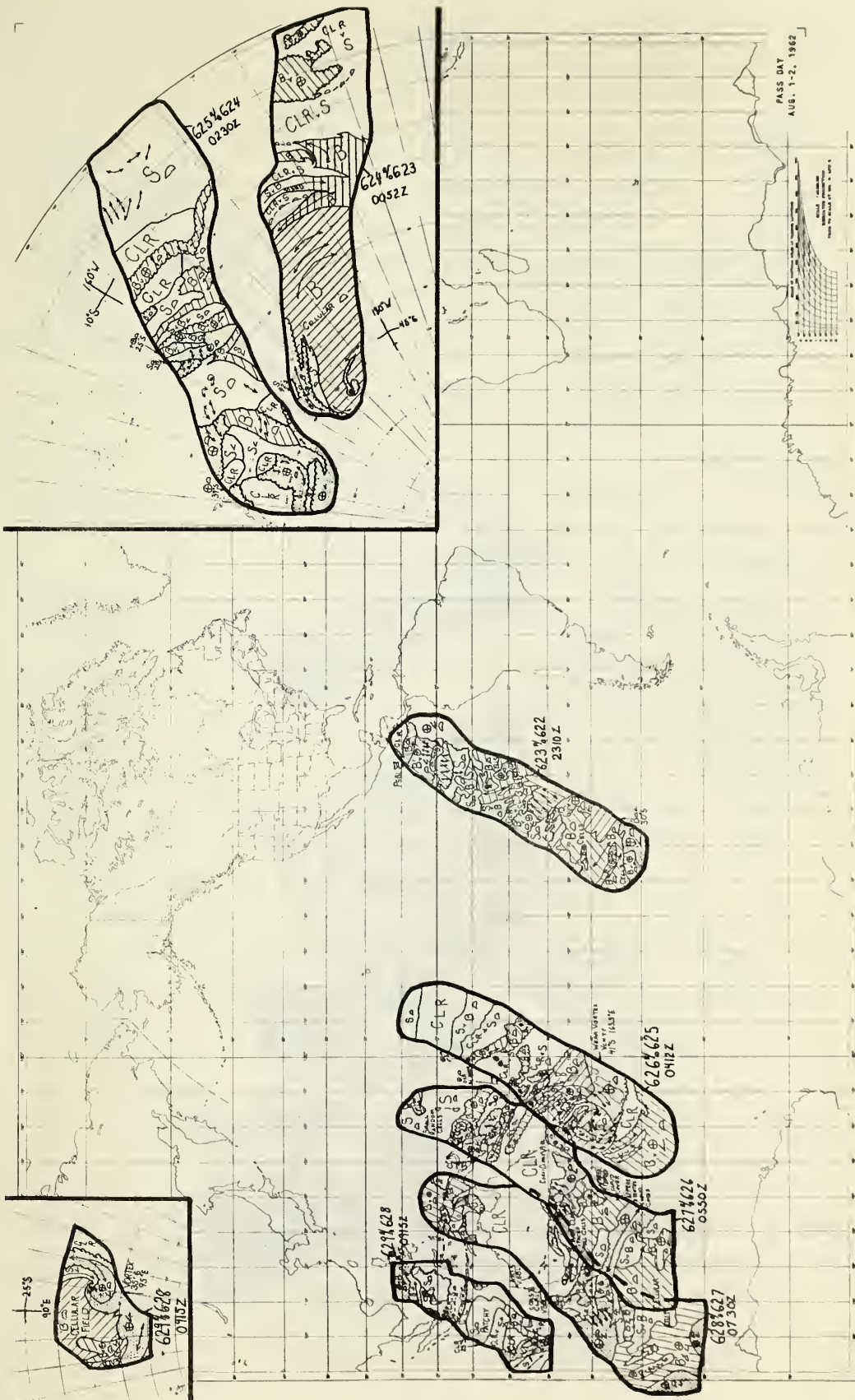




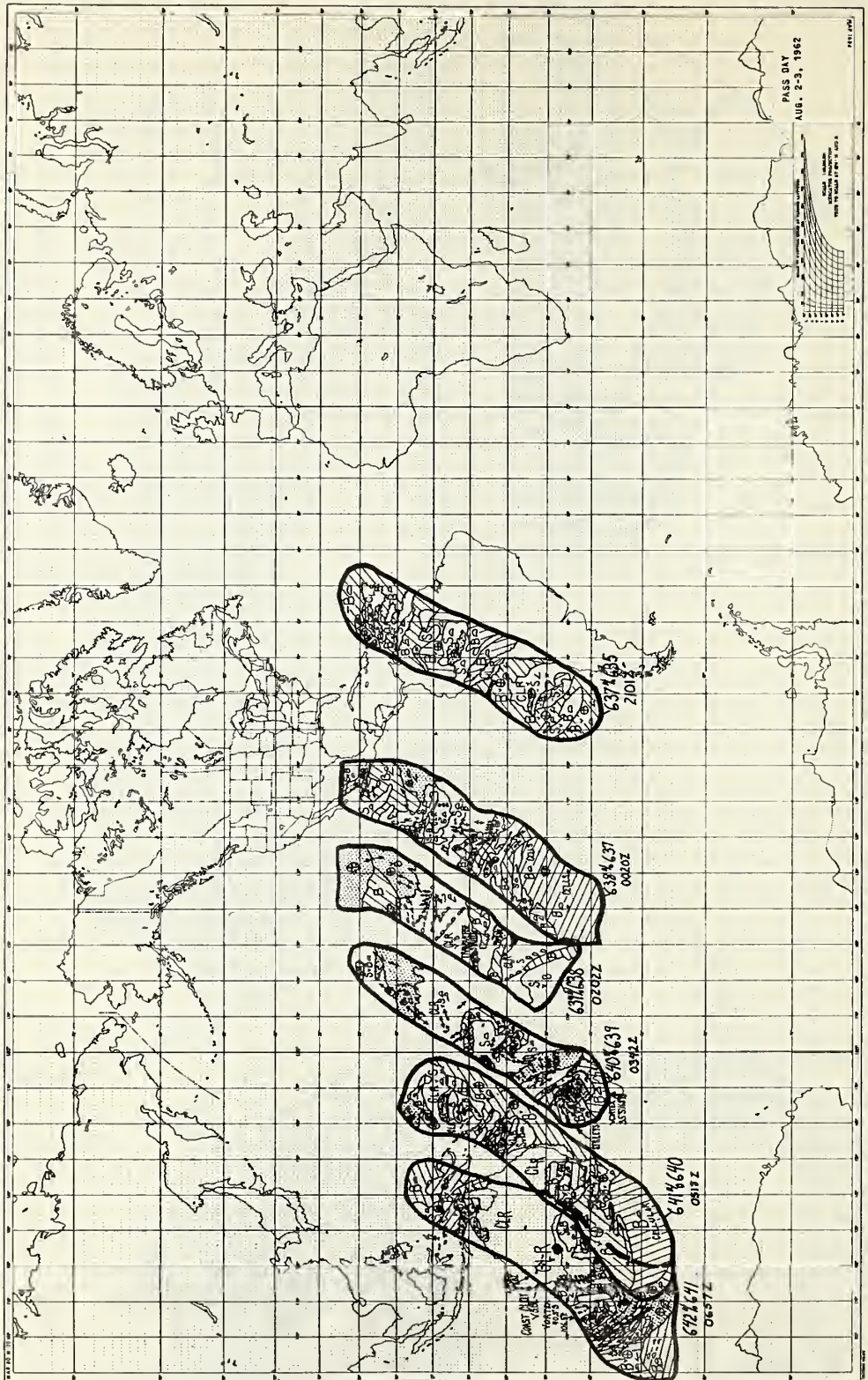






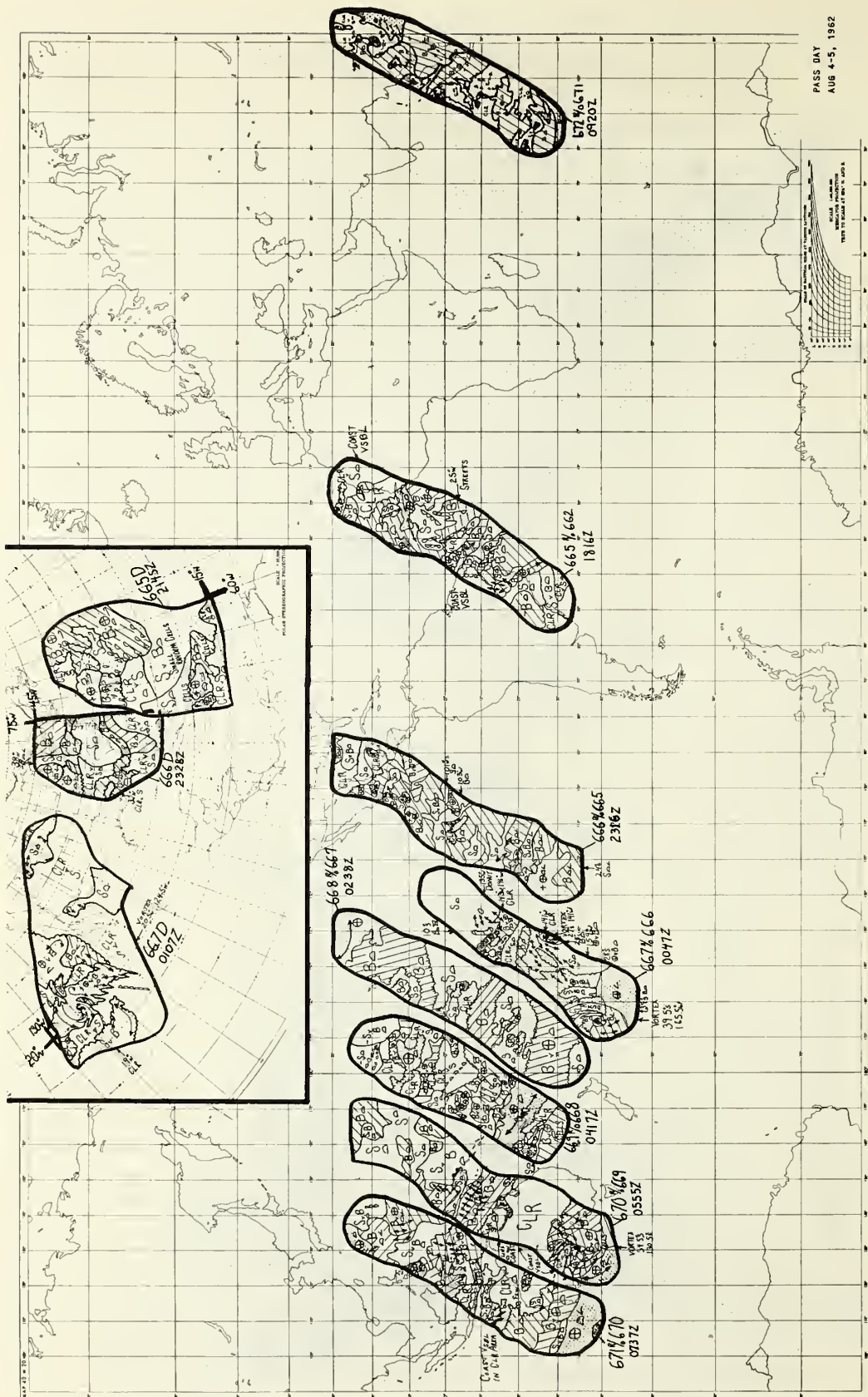












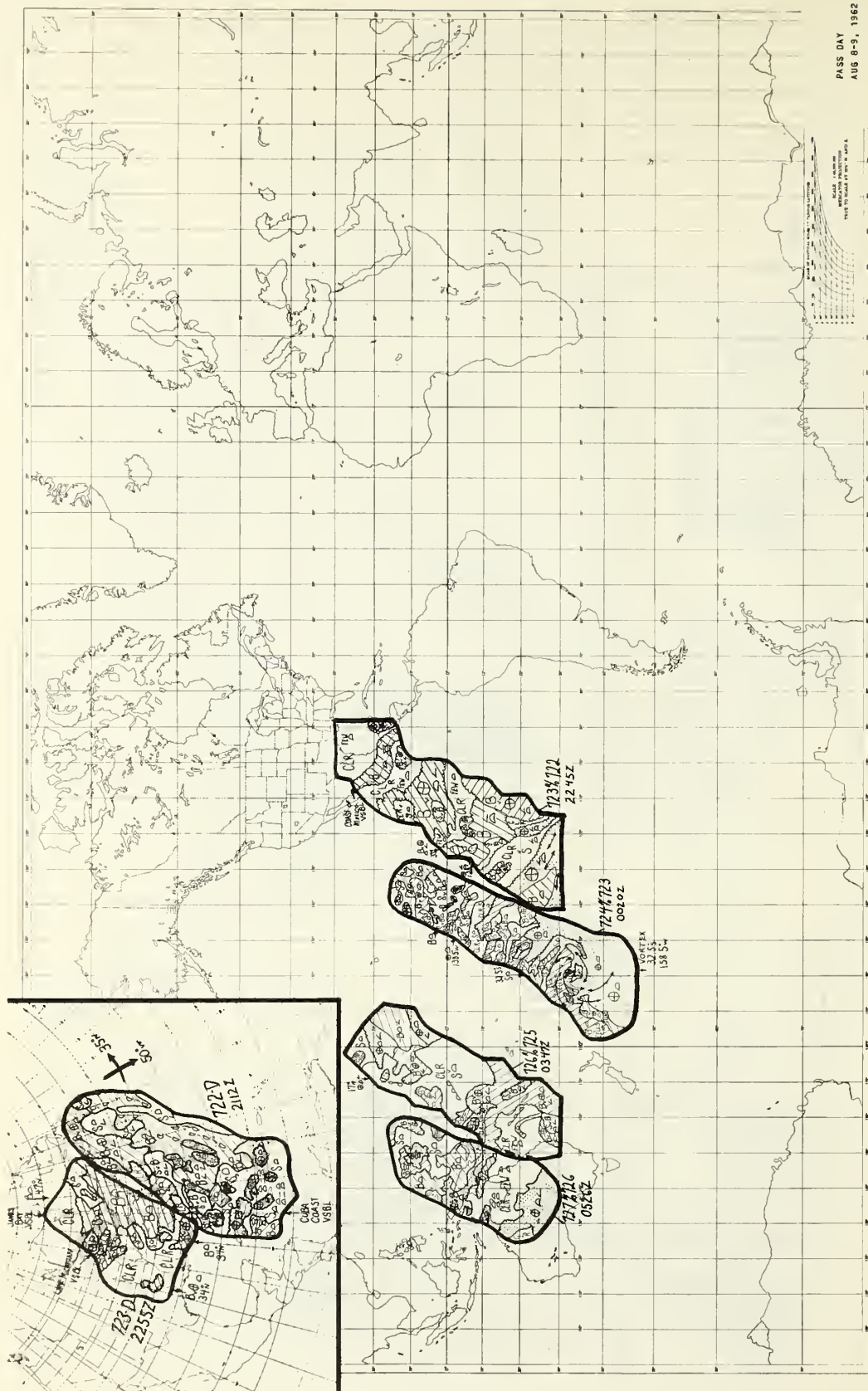


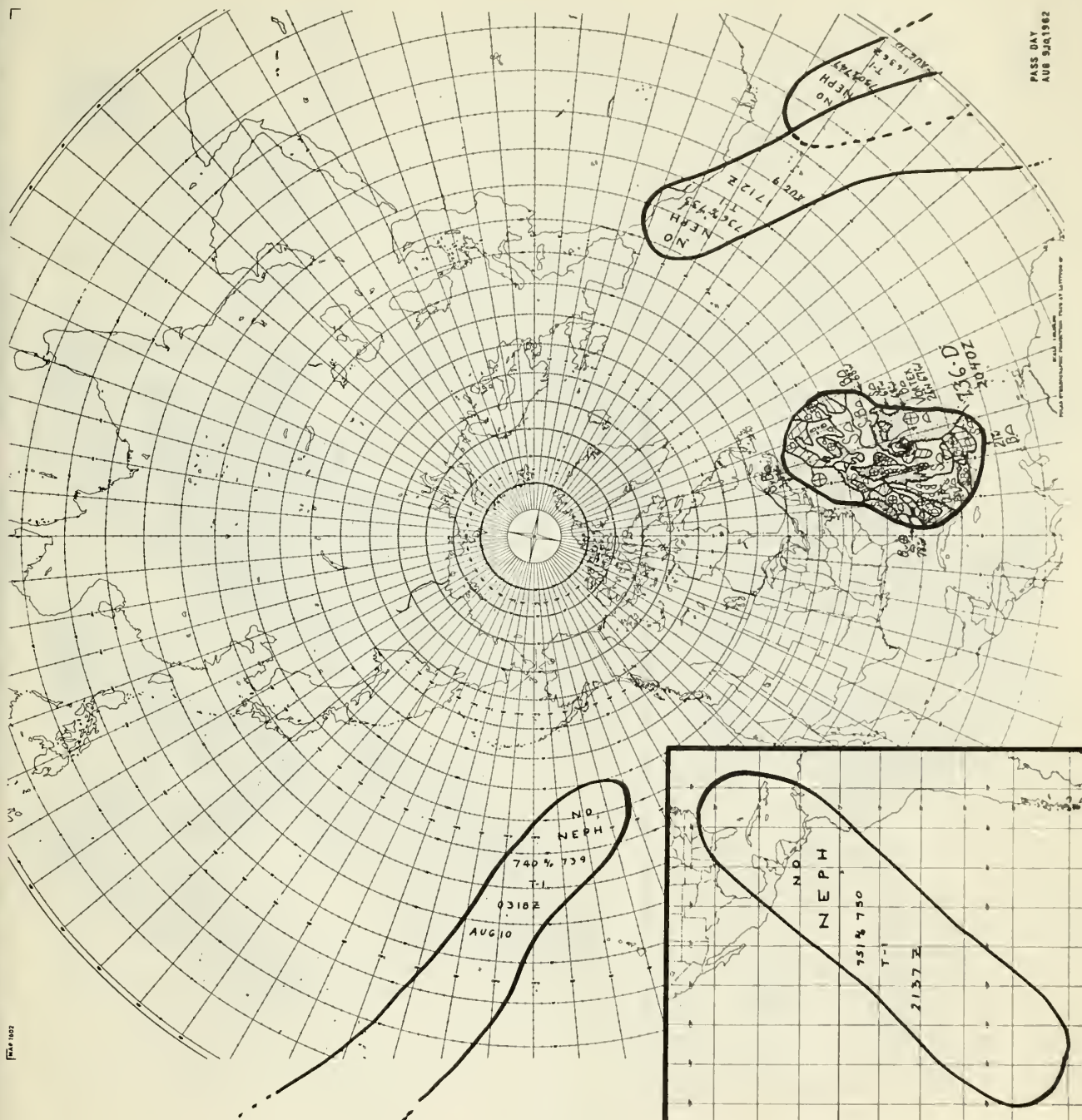






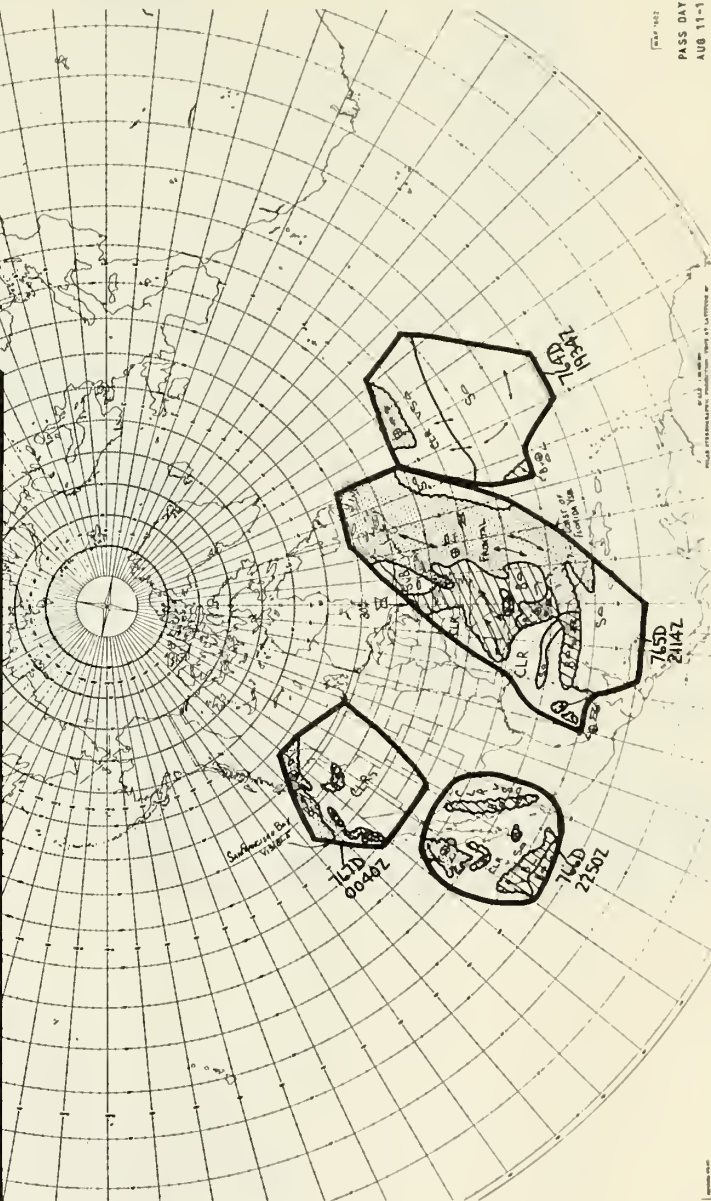
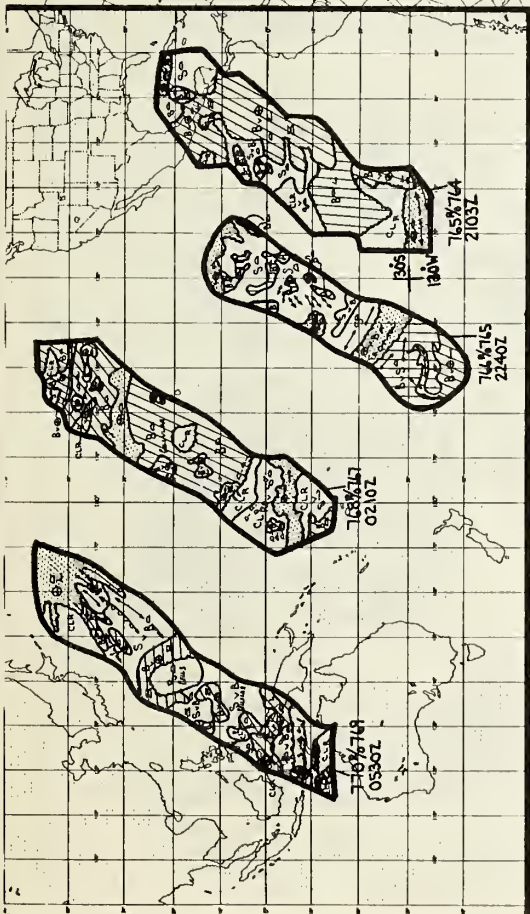
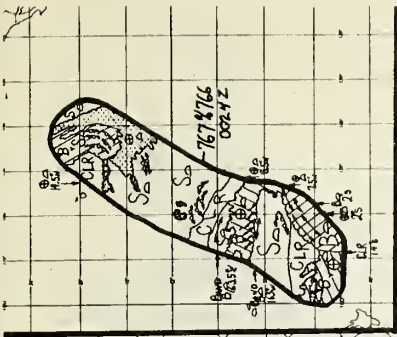






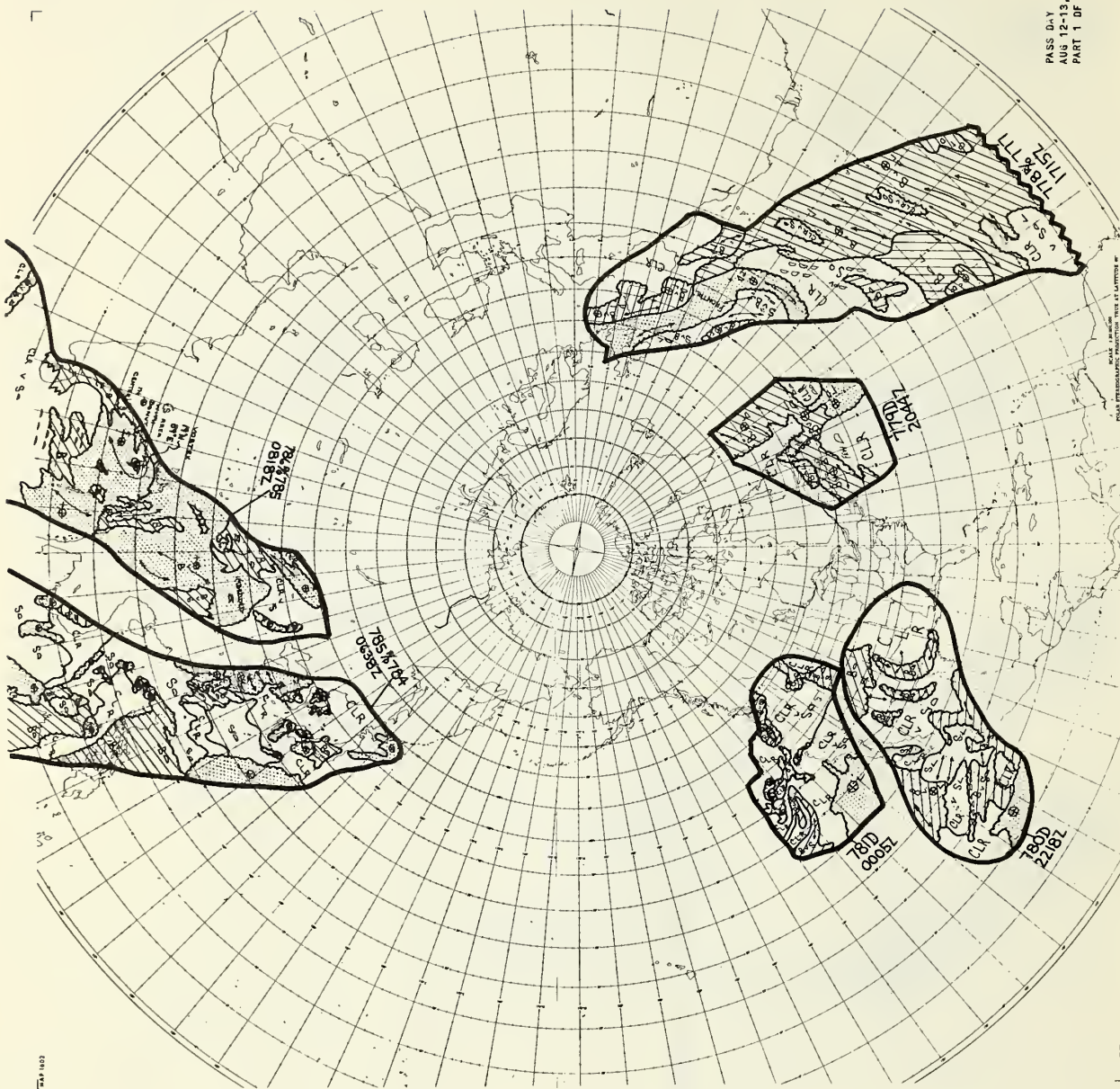




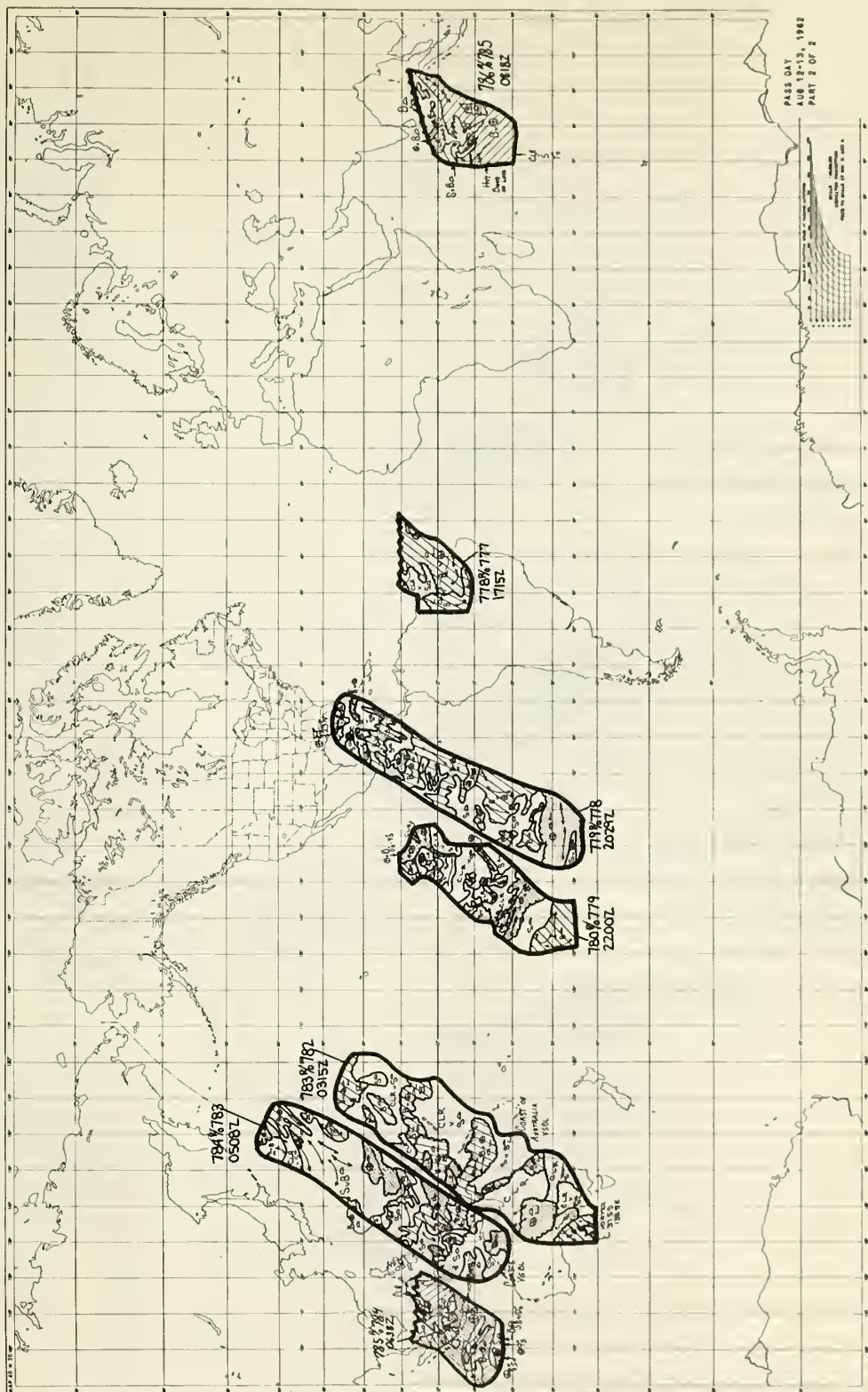


7687172  
PASS DAY  
AUG 11-12, 1962



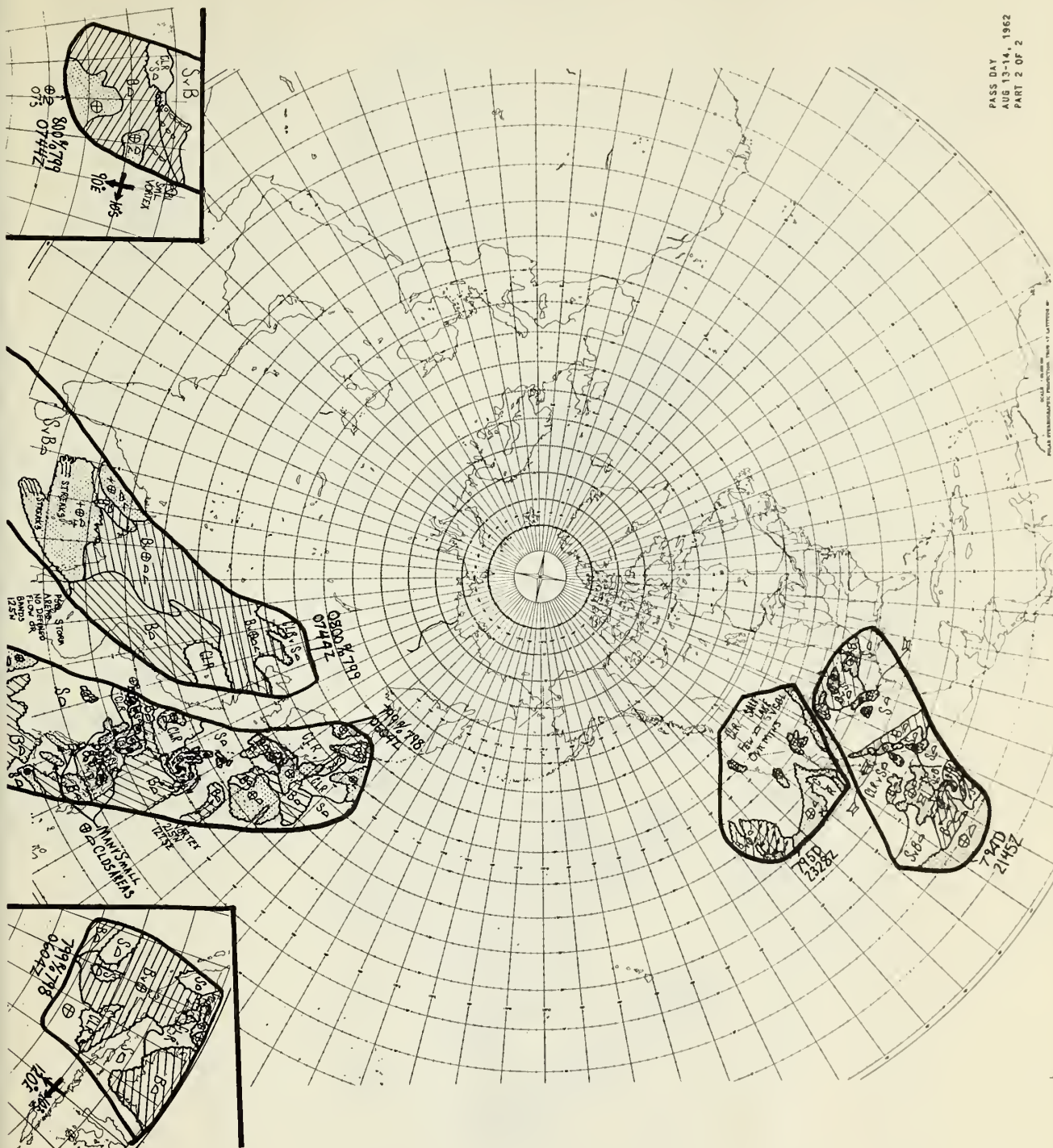


PASS 0.1  
AUG 12-13, 1982  
PART 1 OF 2

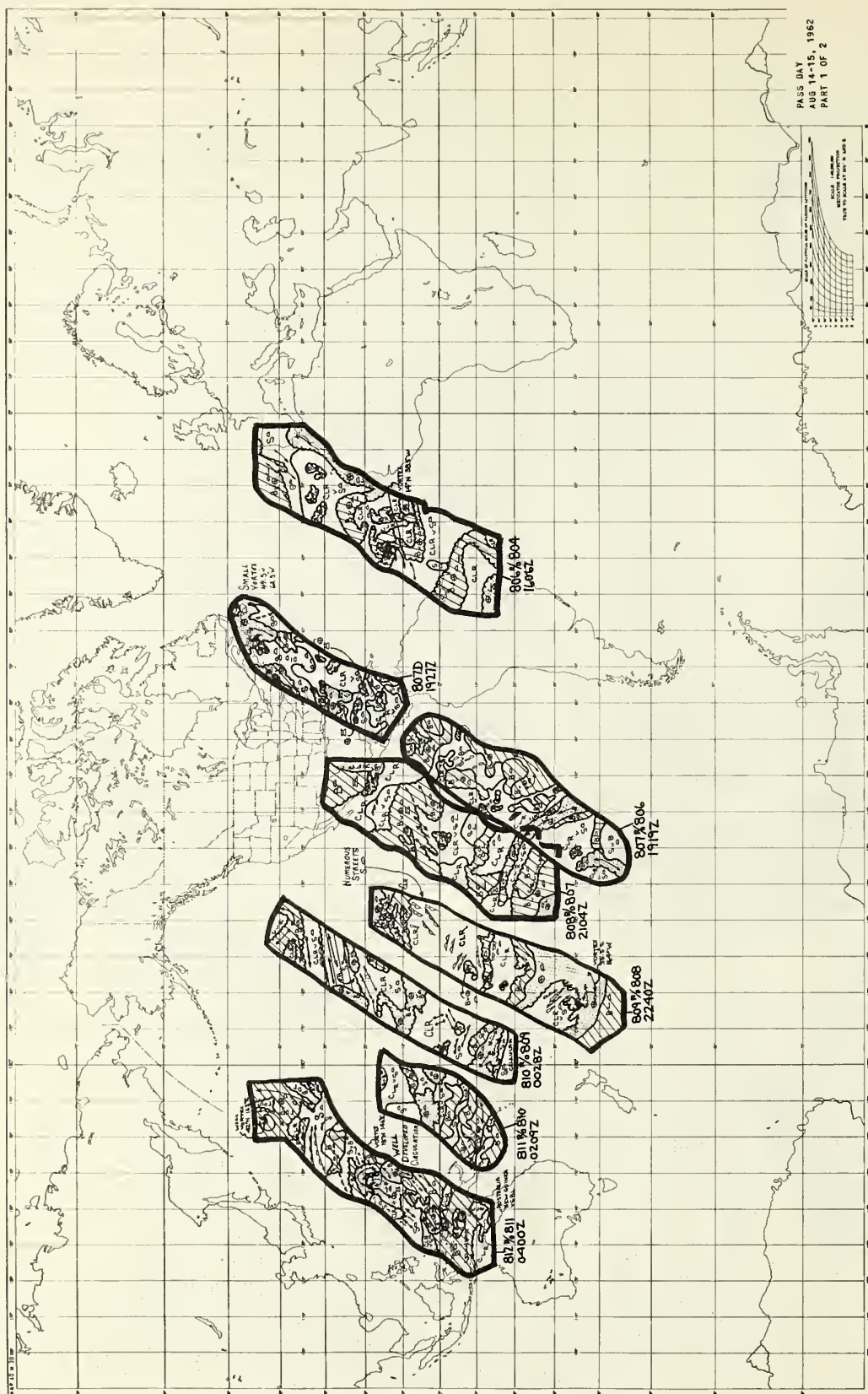






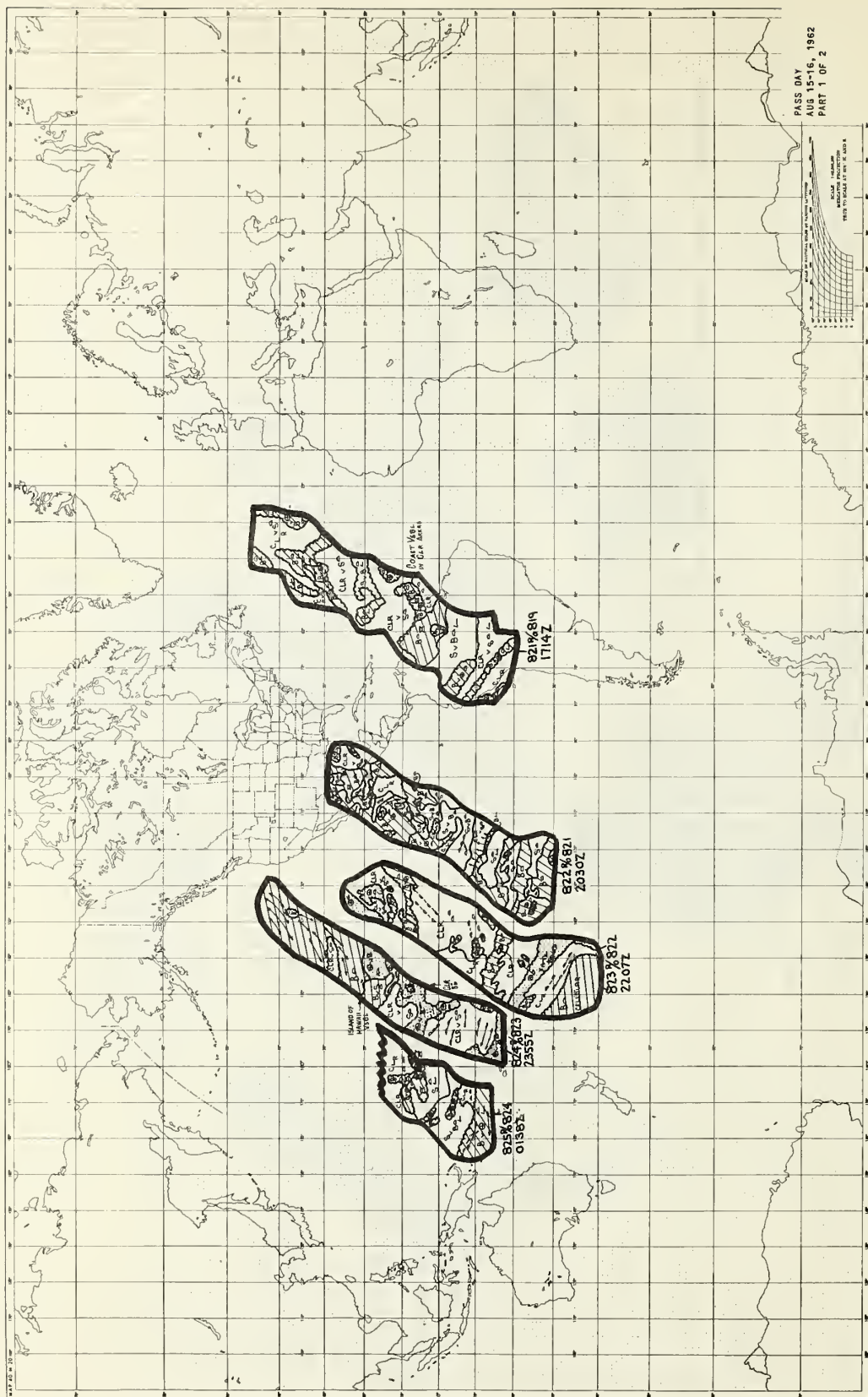


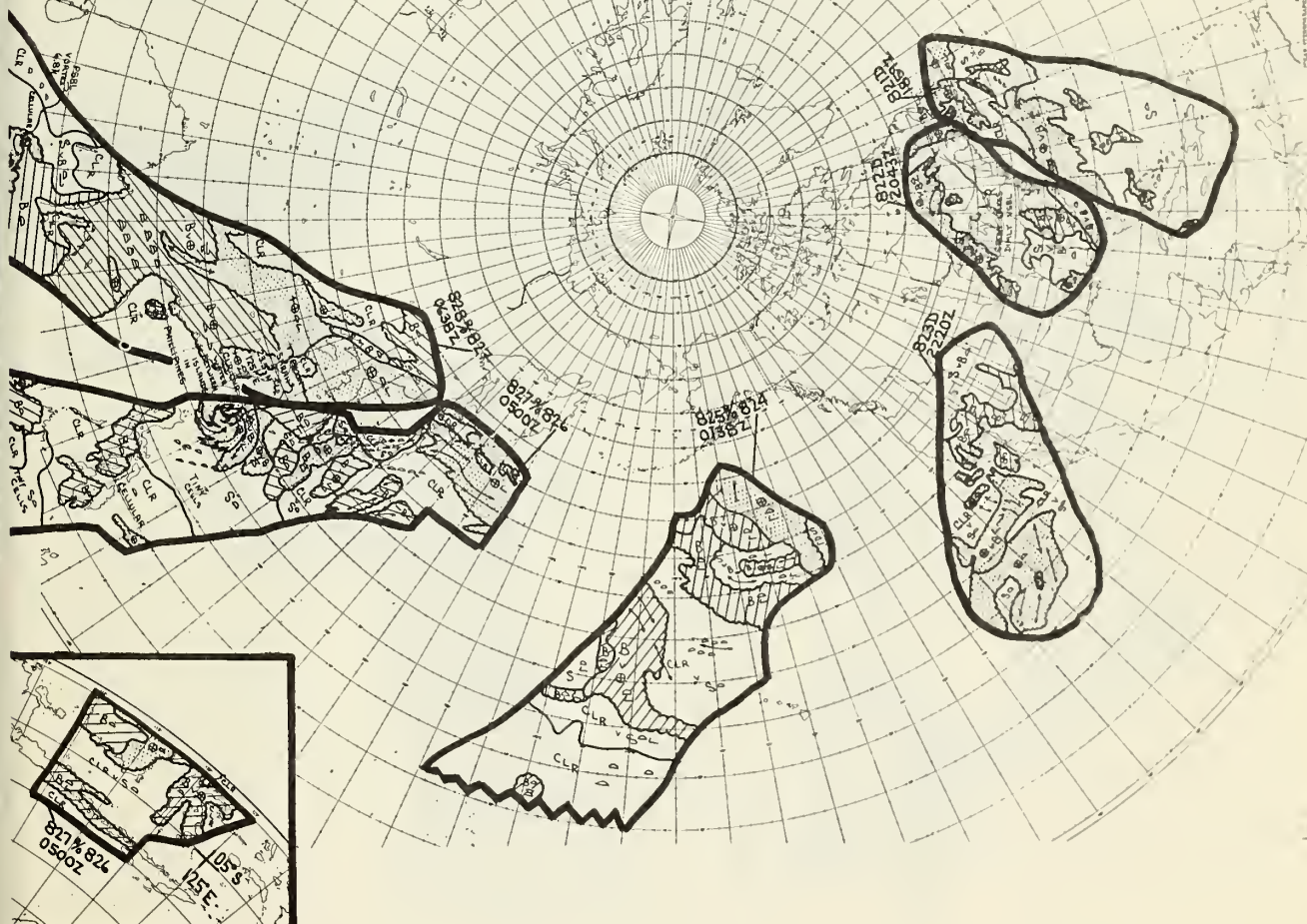










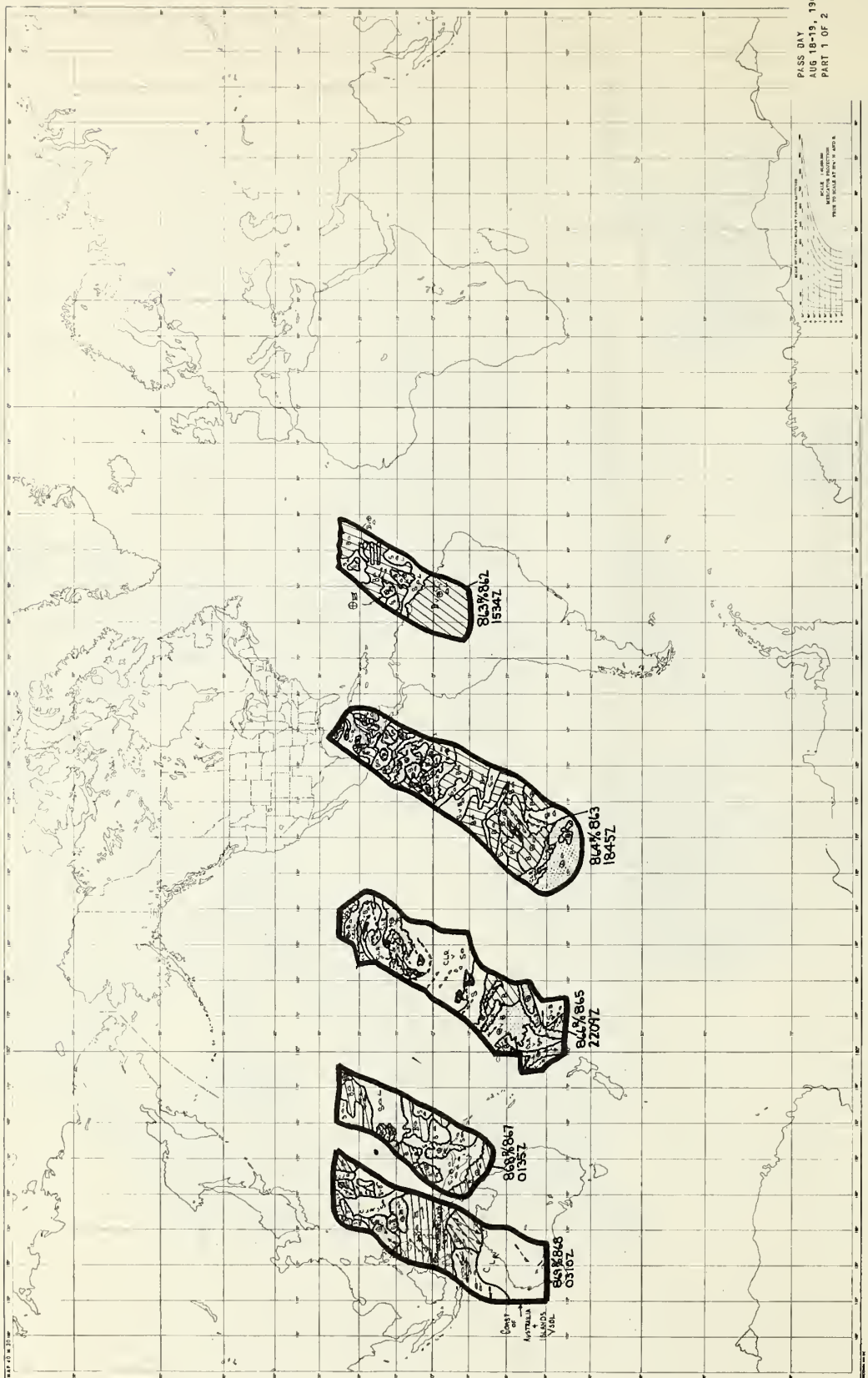


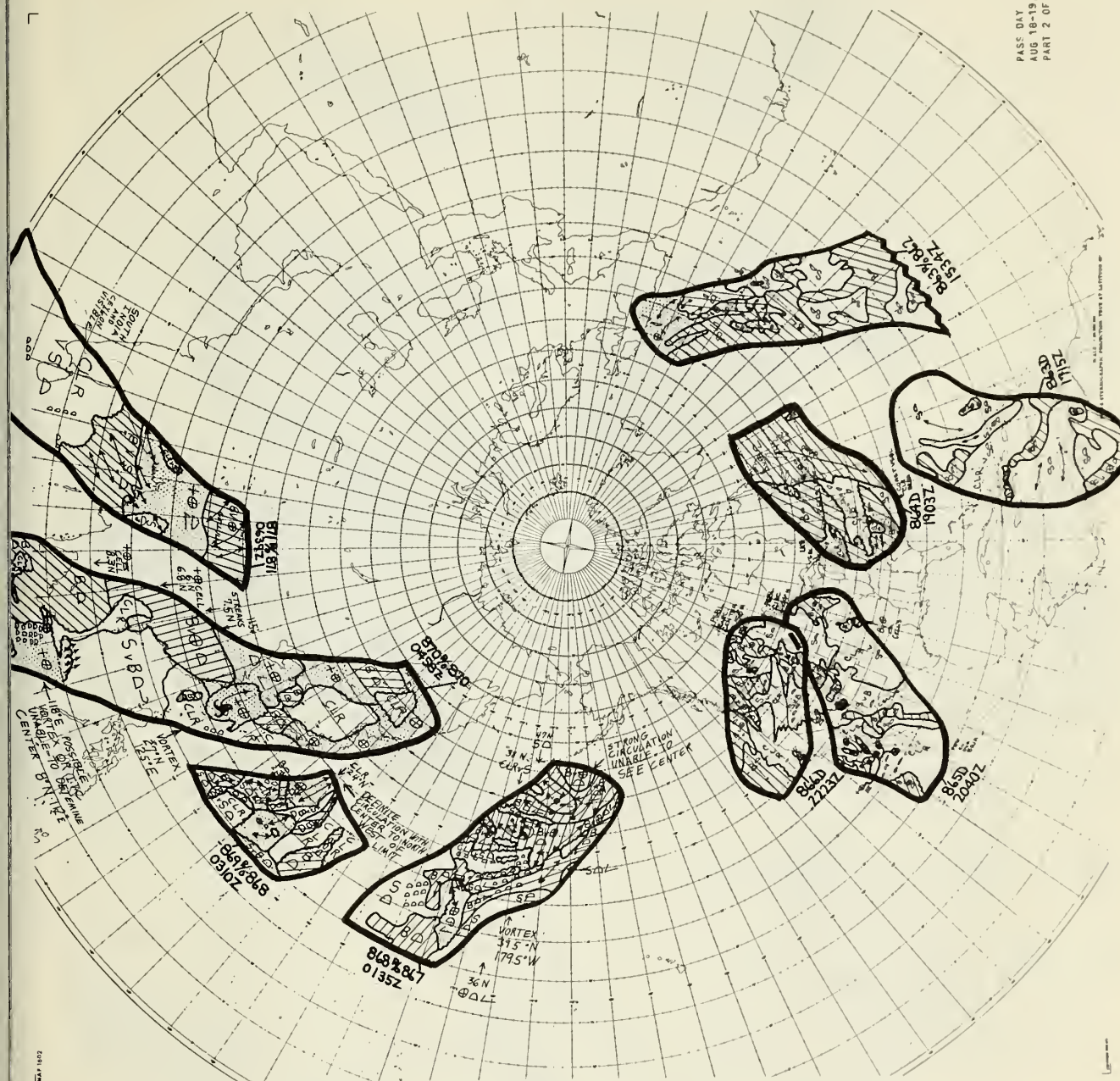






















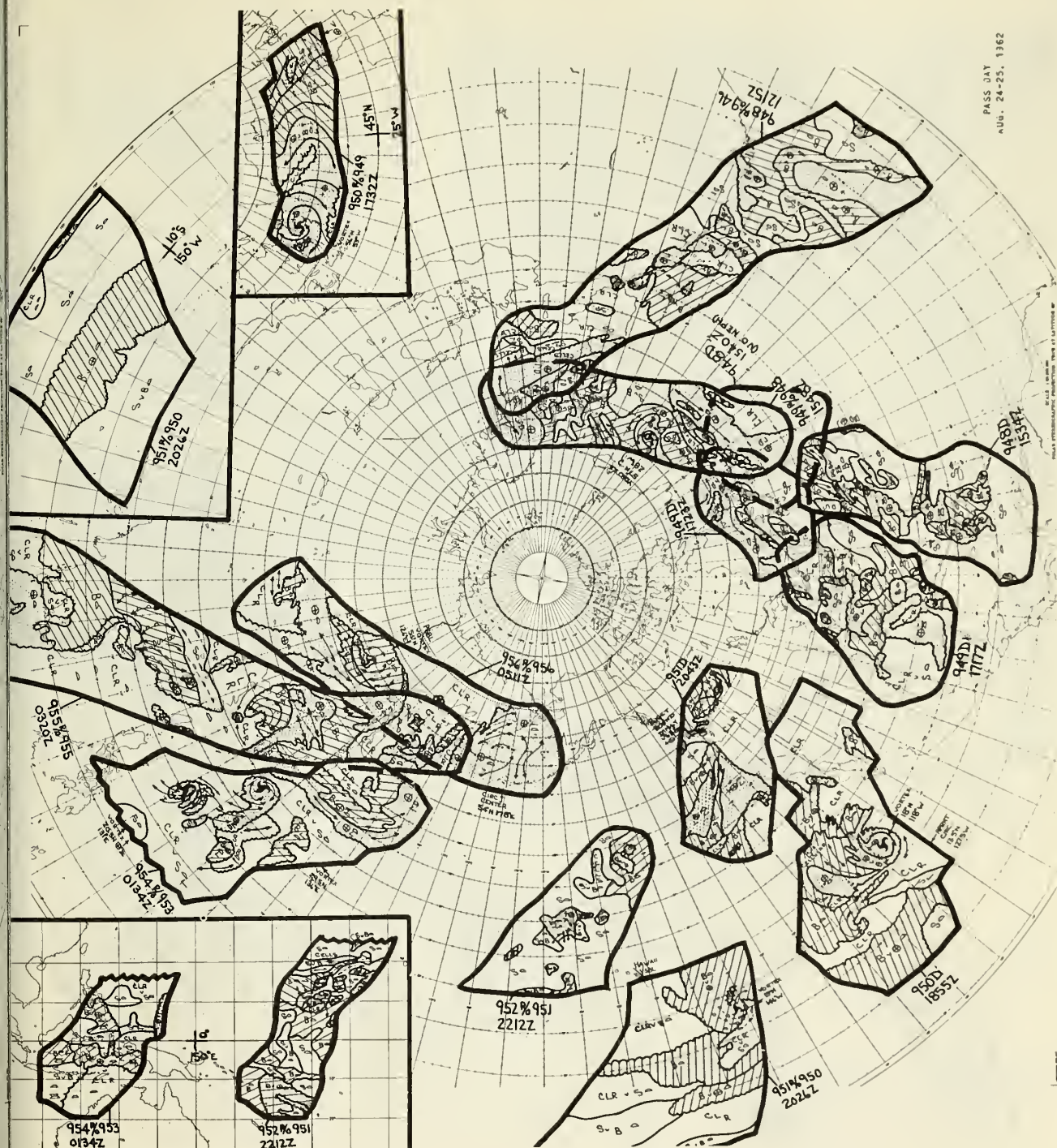




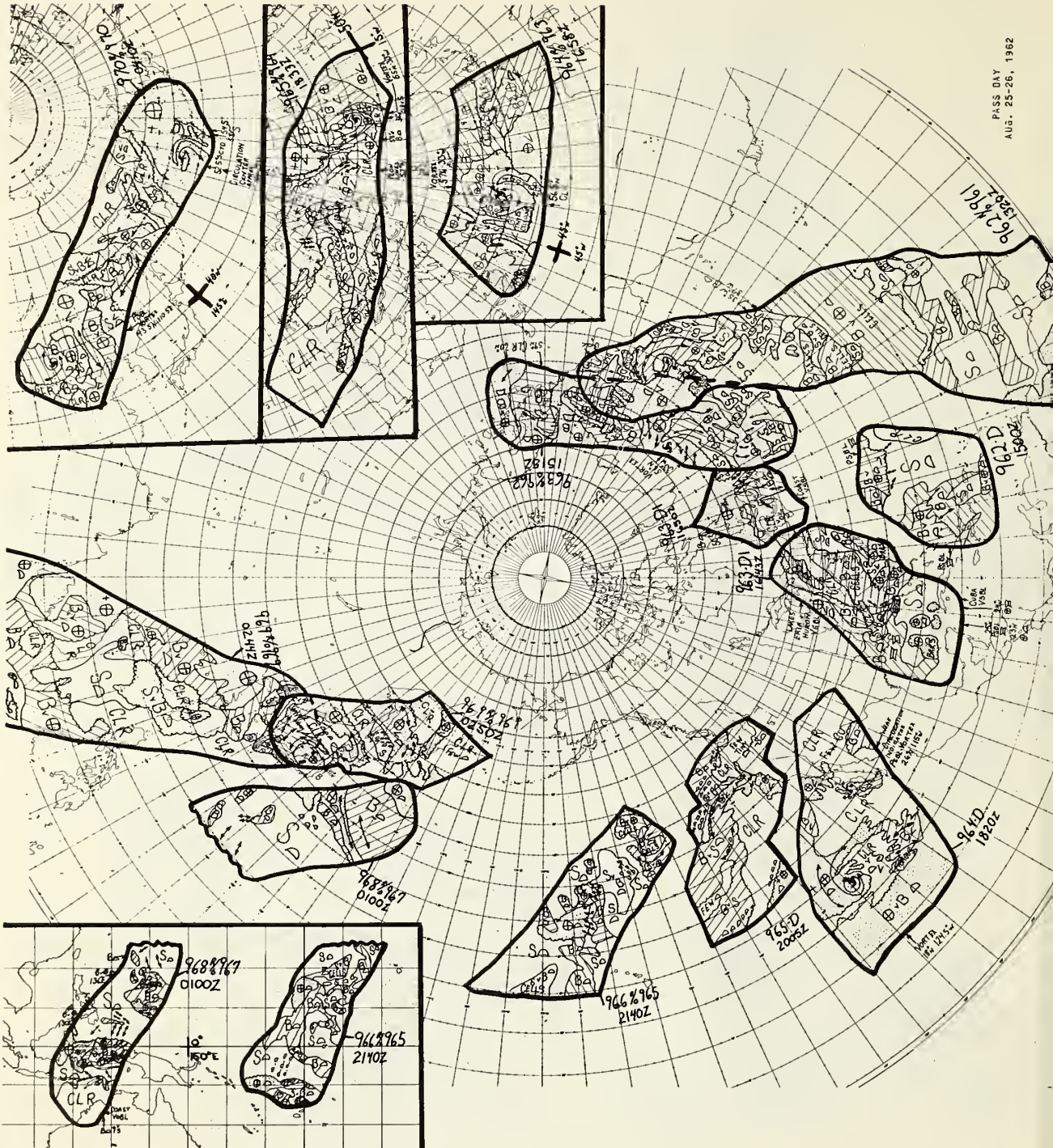




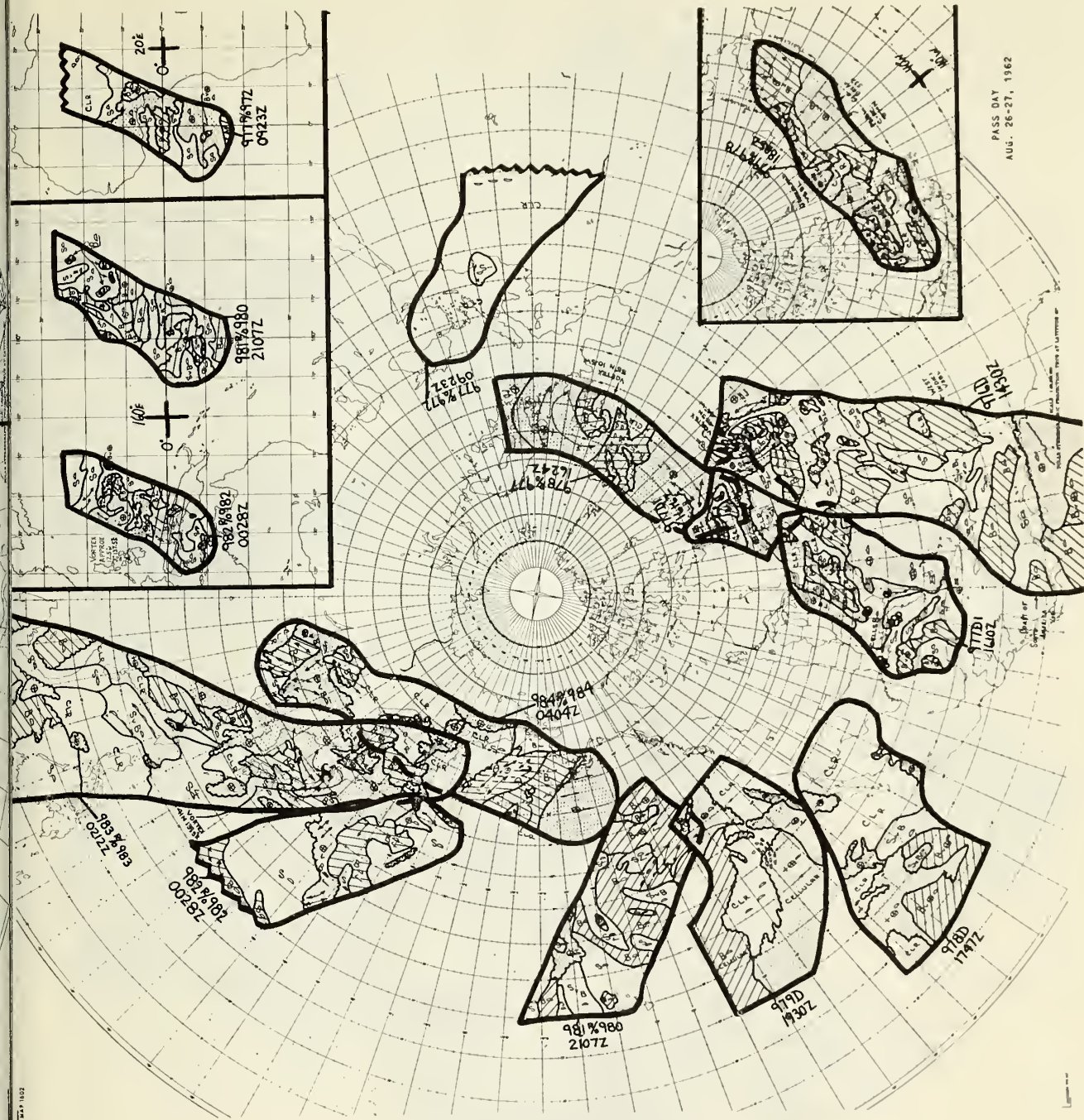
PASS DAY  
AUG. 24-25, 1962





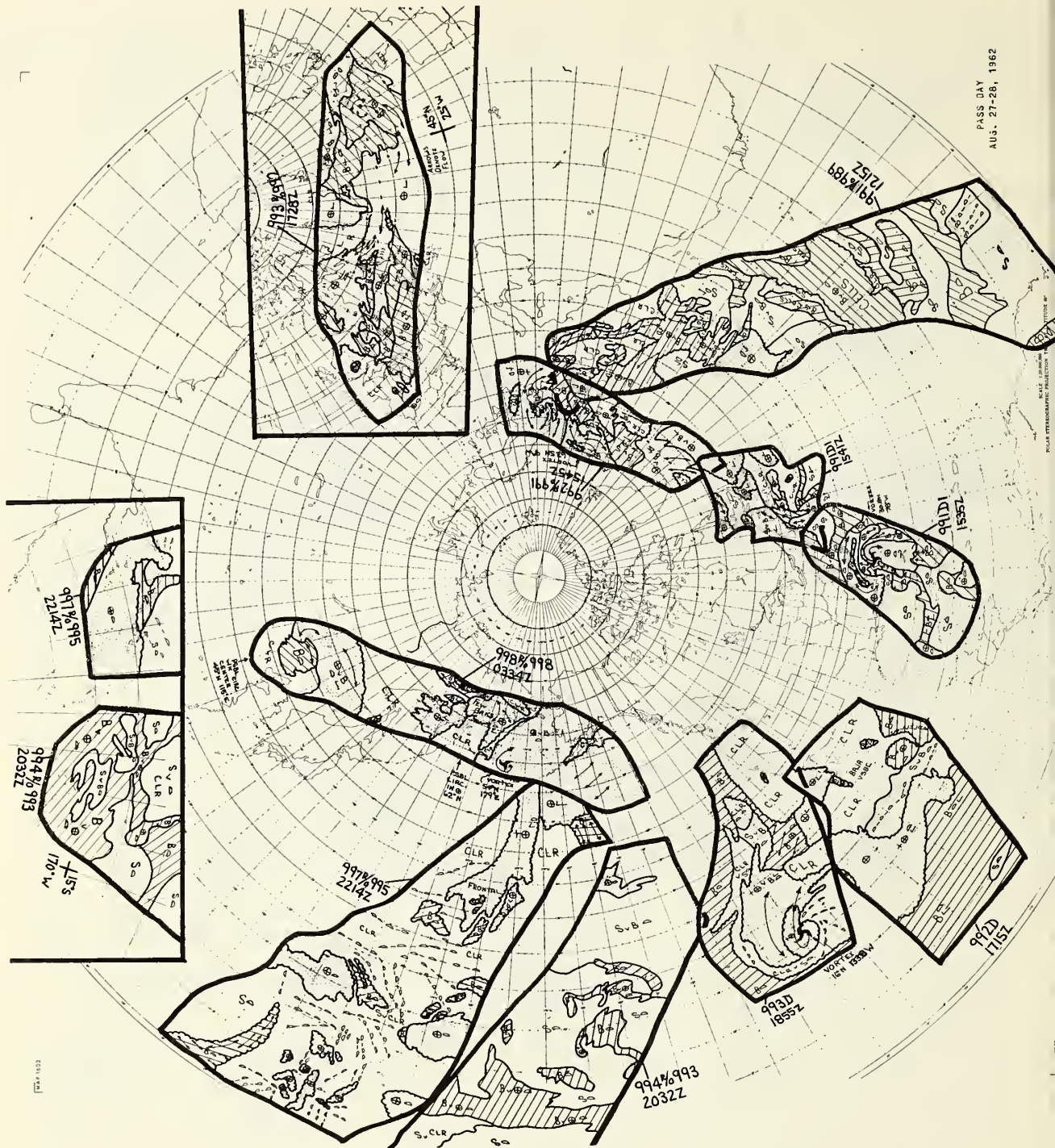






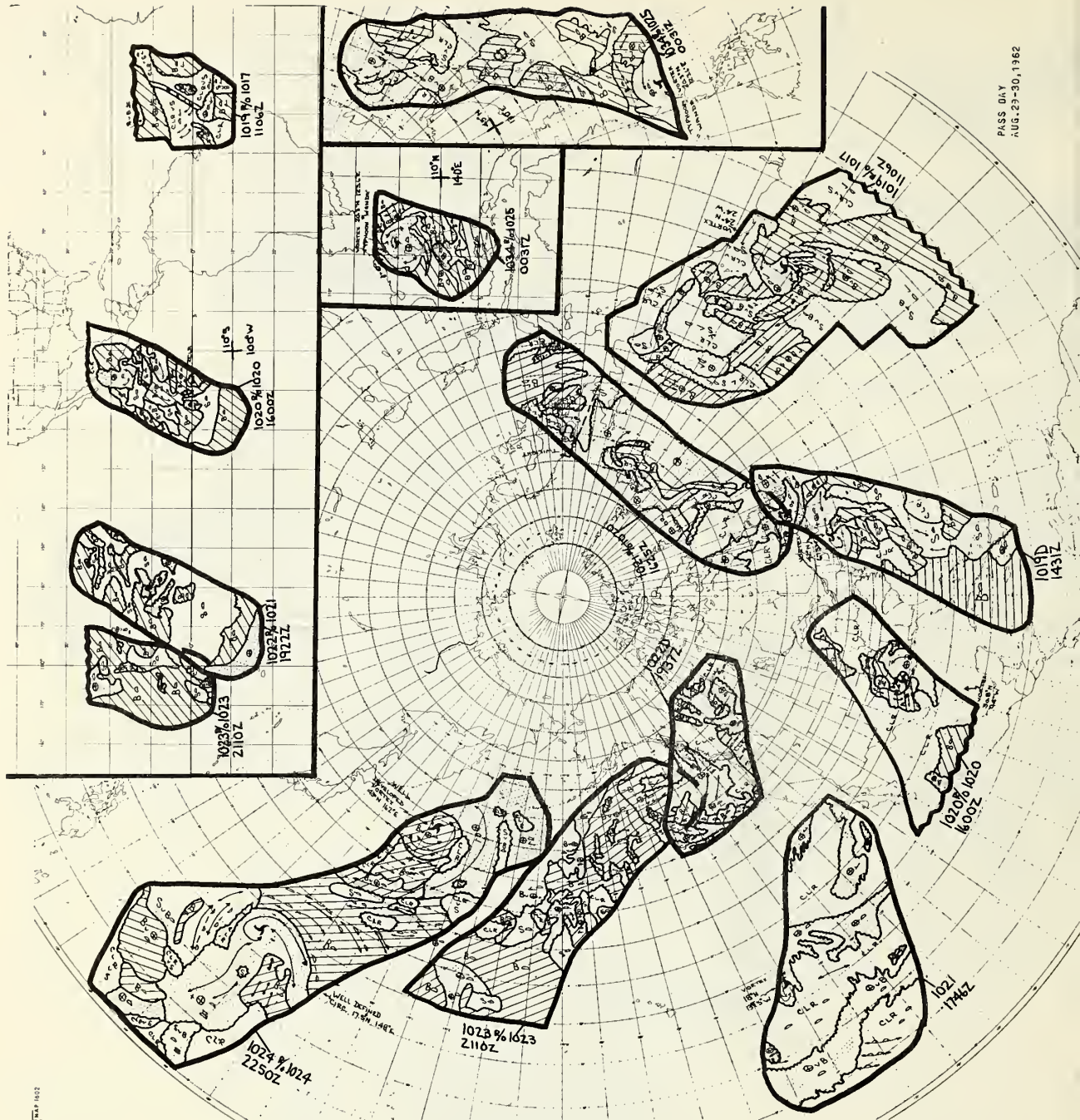
PASS DAY  
AUG. 26-27, 1962





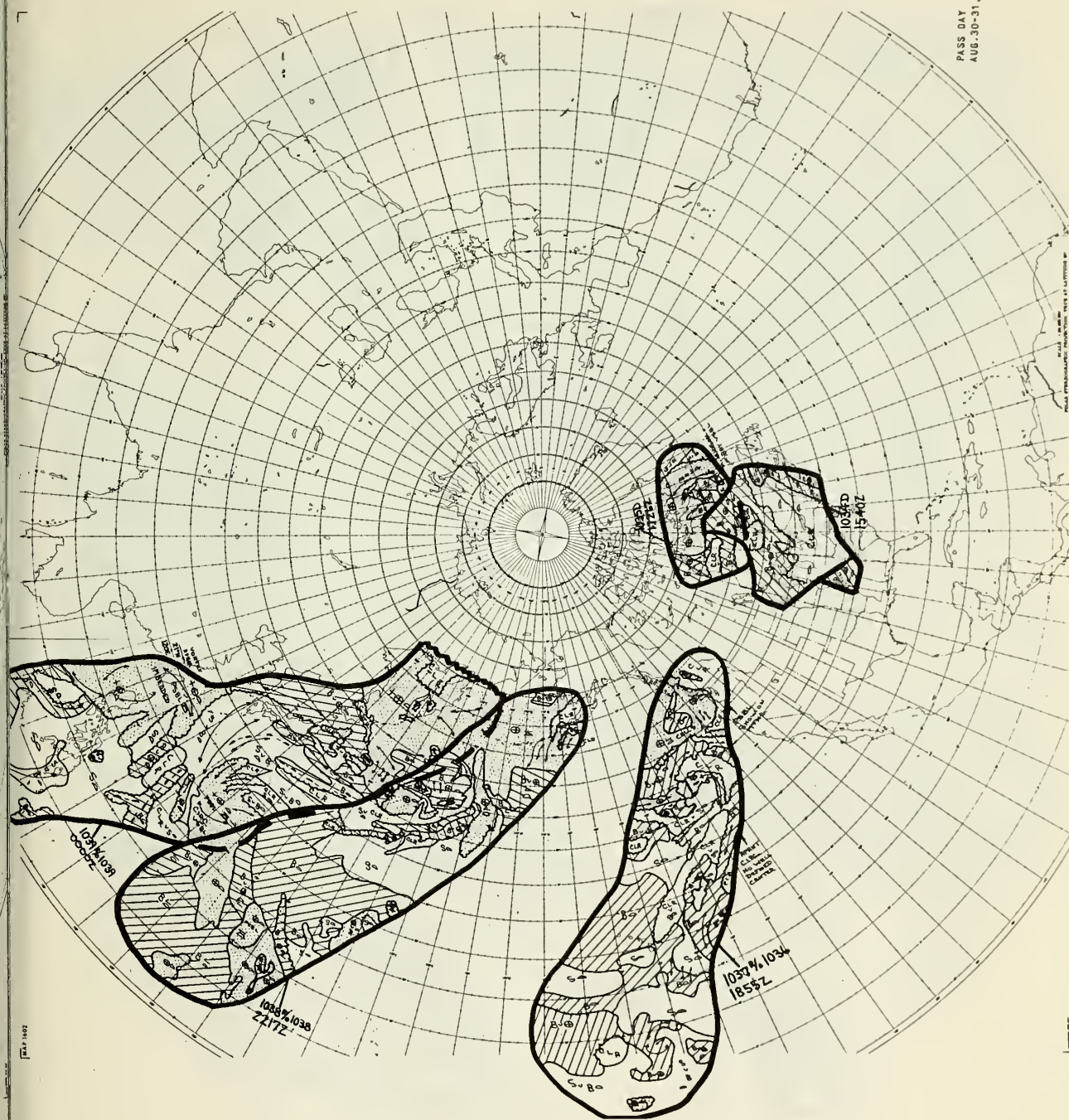






PASS ONLY  
AUG-29-30, 1962

PASS DAY  
AUG. 30-31, 1962



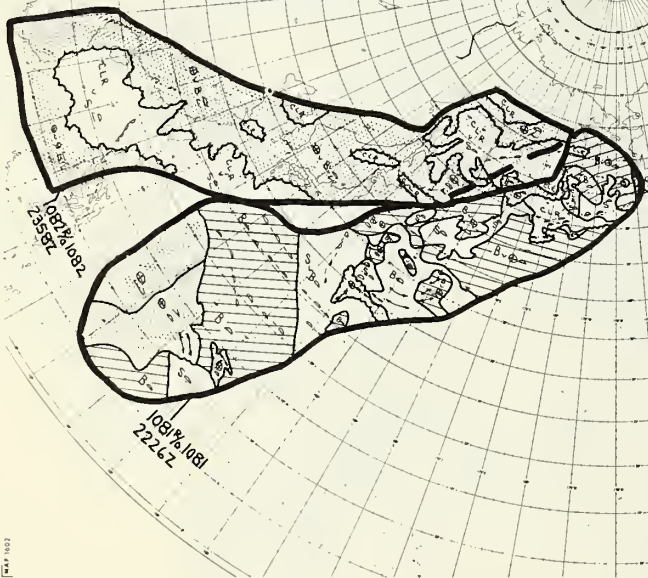
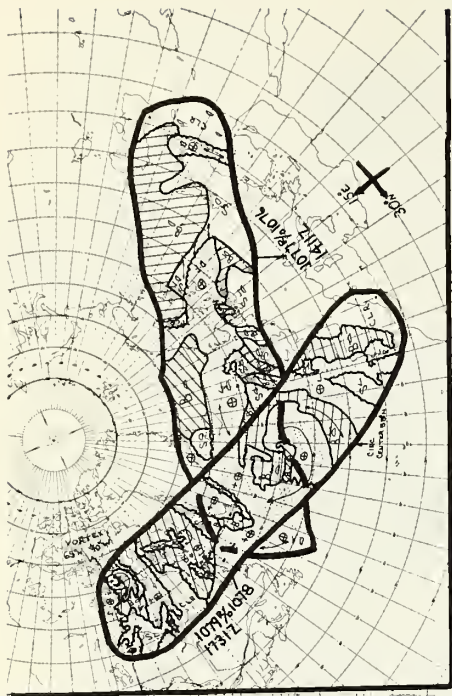












TV  
1.35 DAY  
SEPT. 2, 1962

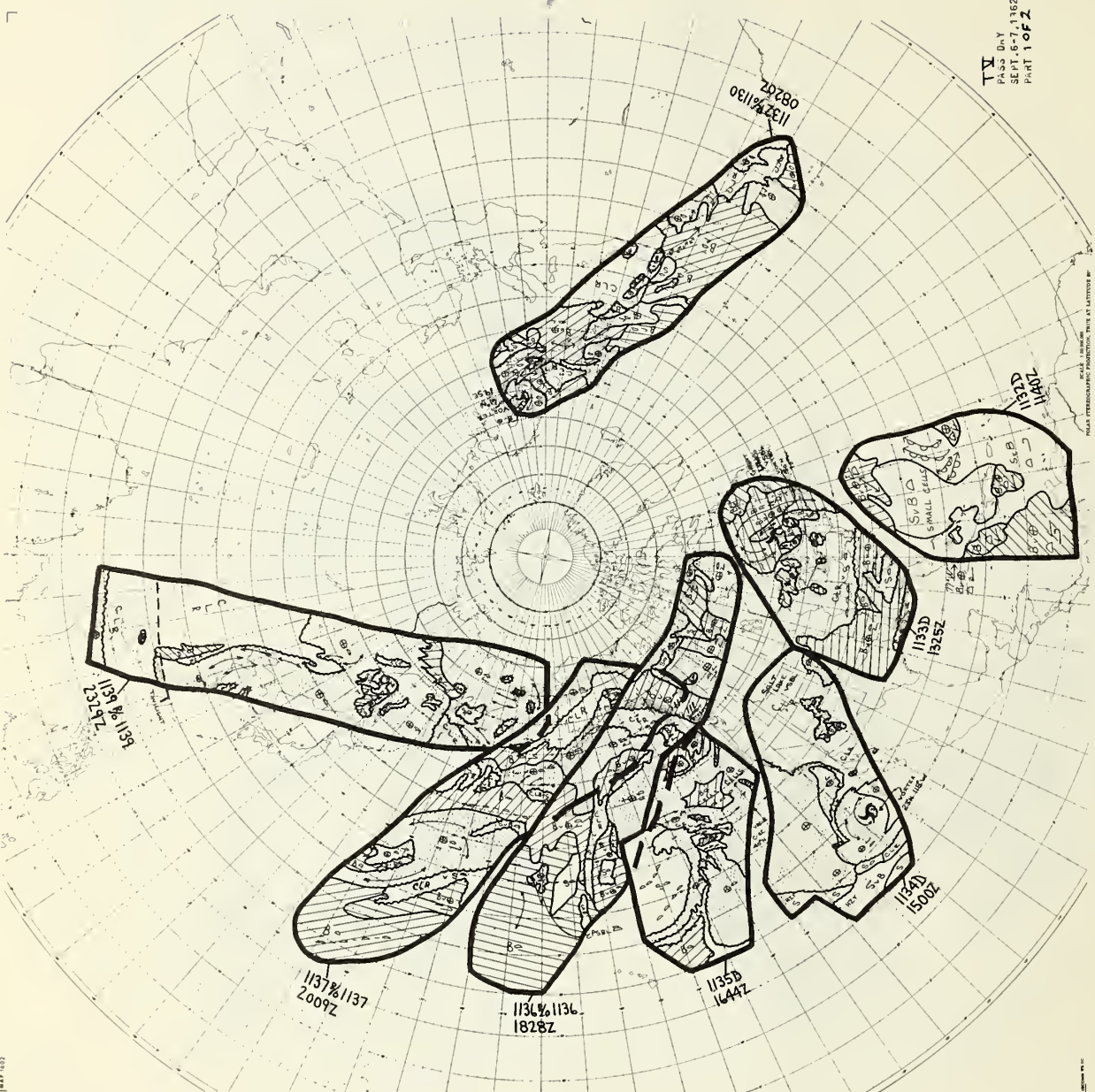










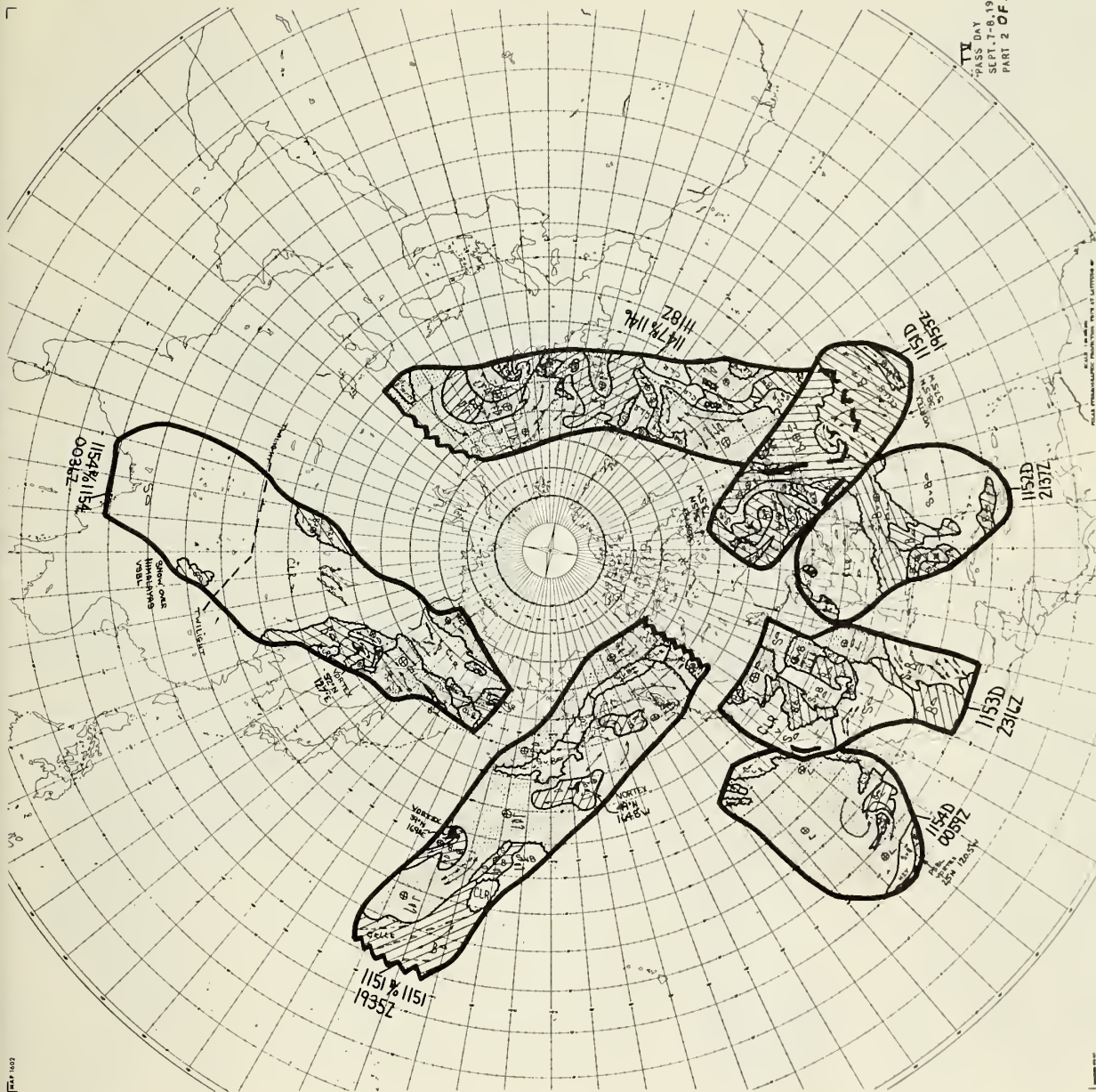


TX  
PASS ONLY  
SEPT. 6-7, 1962  
PART 1 OF 2





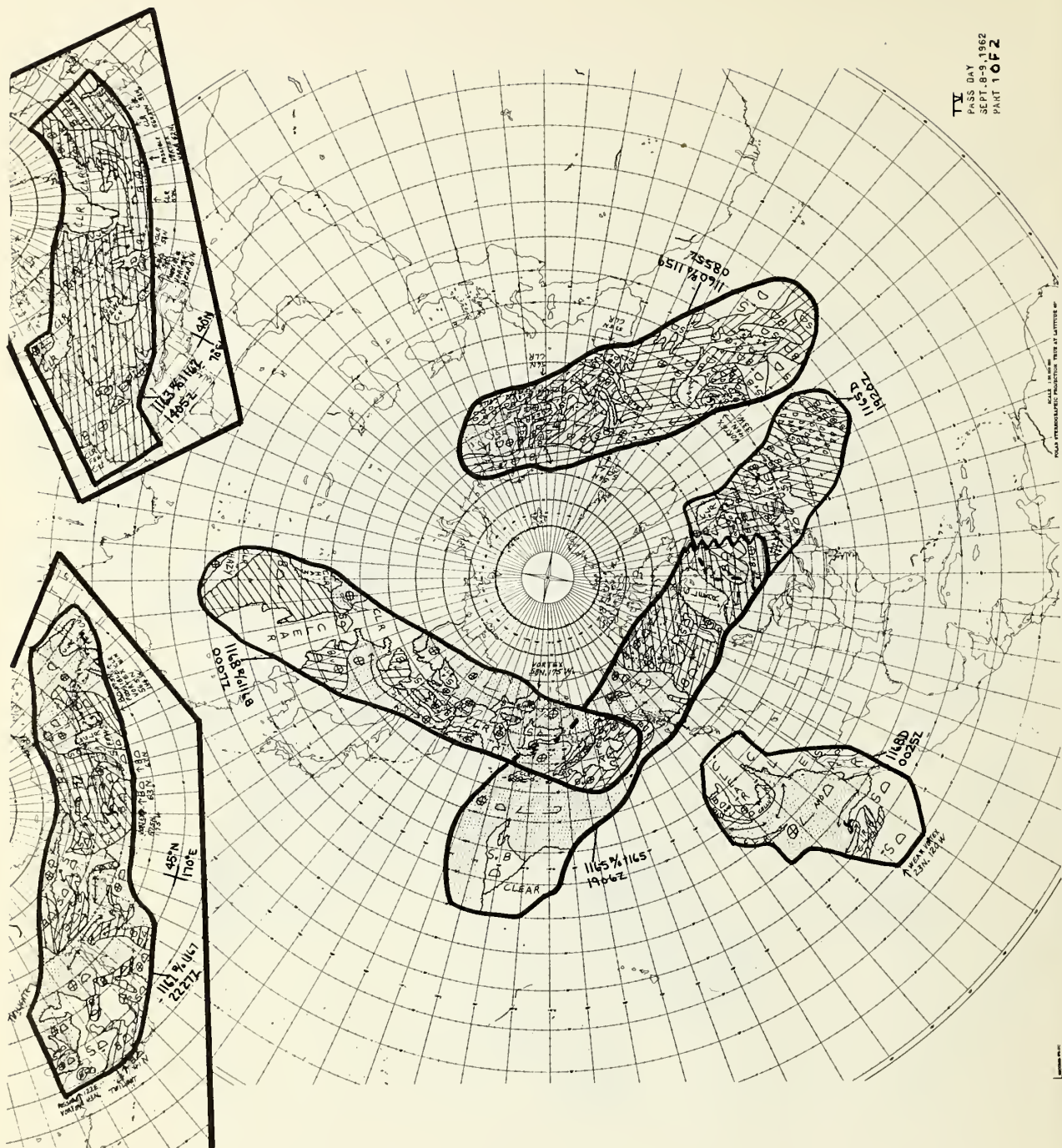




CLASS DAY  
 SEPT 7-8, 1962  
 PART 2 OF 2

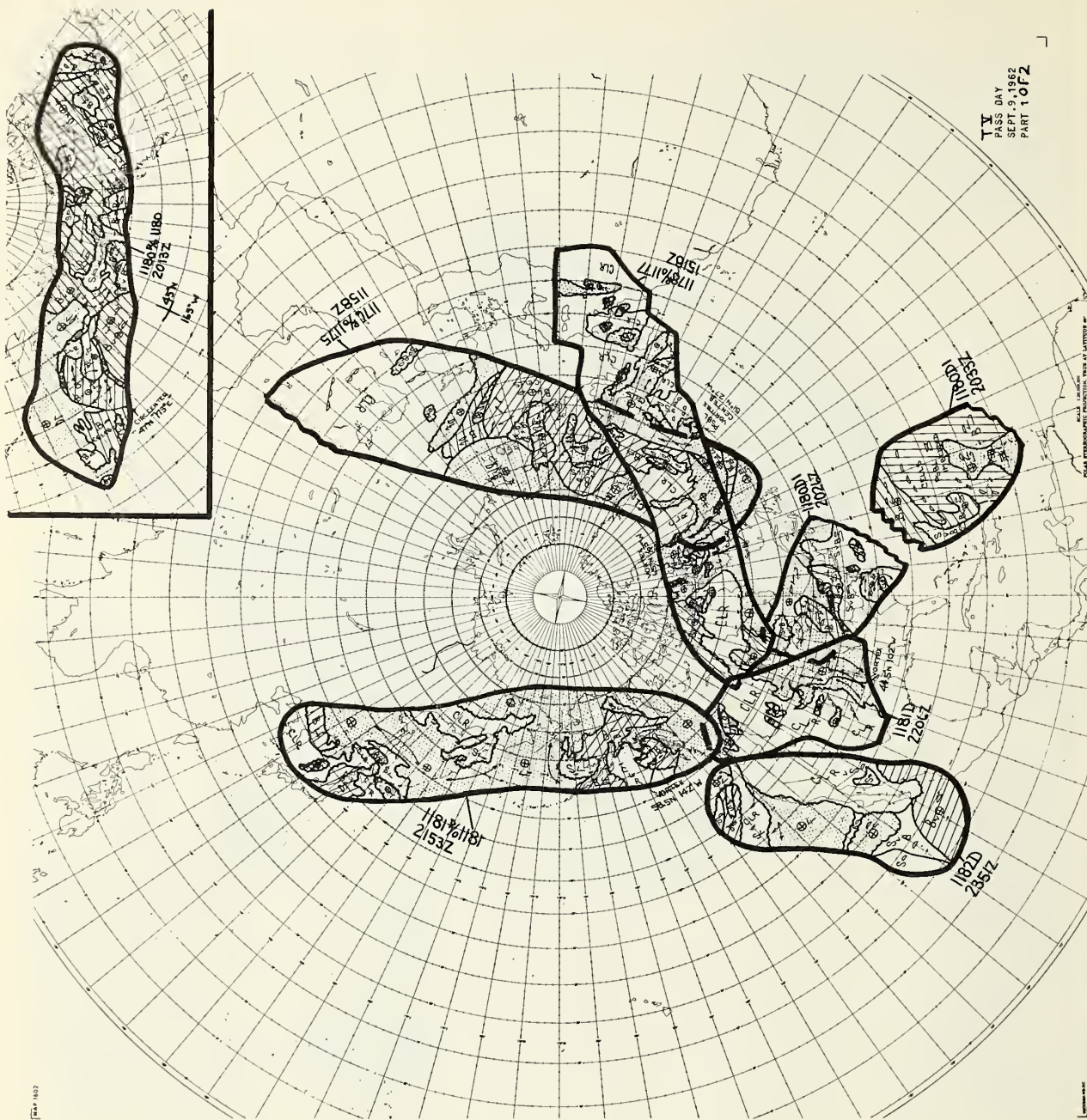
NOV 1962 141





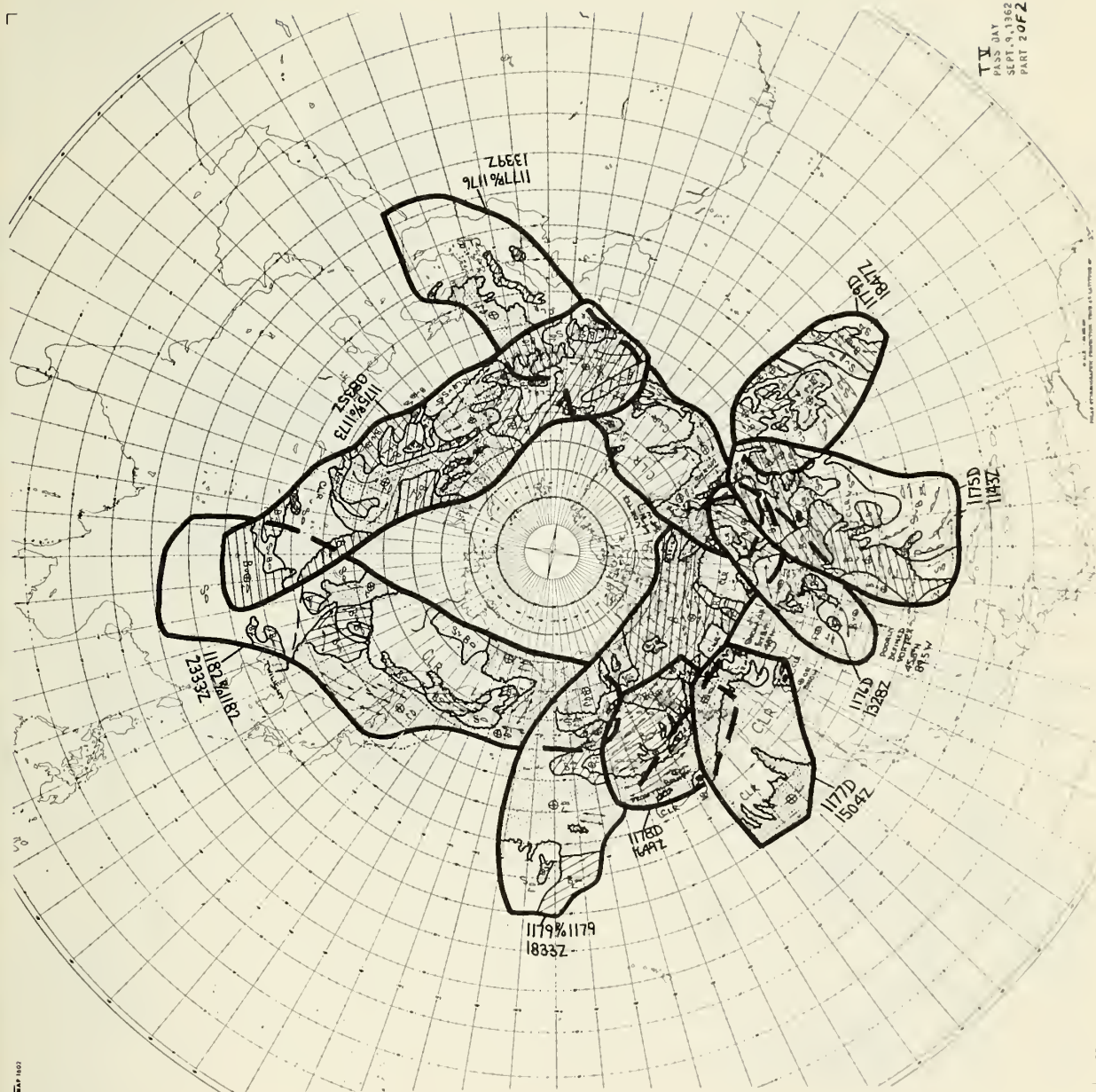
• **DEVELOP A GOOD WORKING RELATIONSHIP WITH**





IV  
PASS DAY  
SEPT. 9, 1962  
PART 1 OF 2

MAP 1802



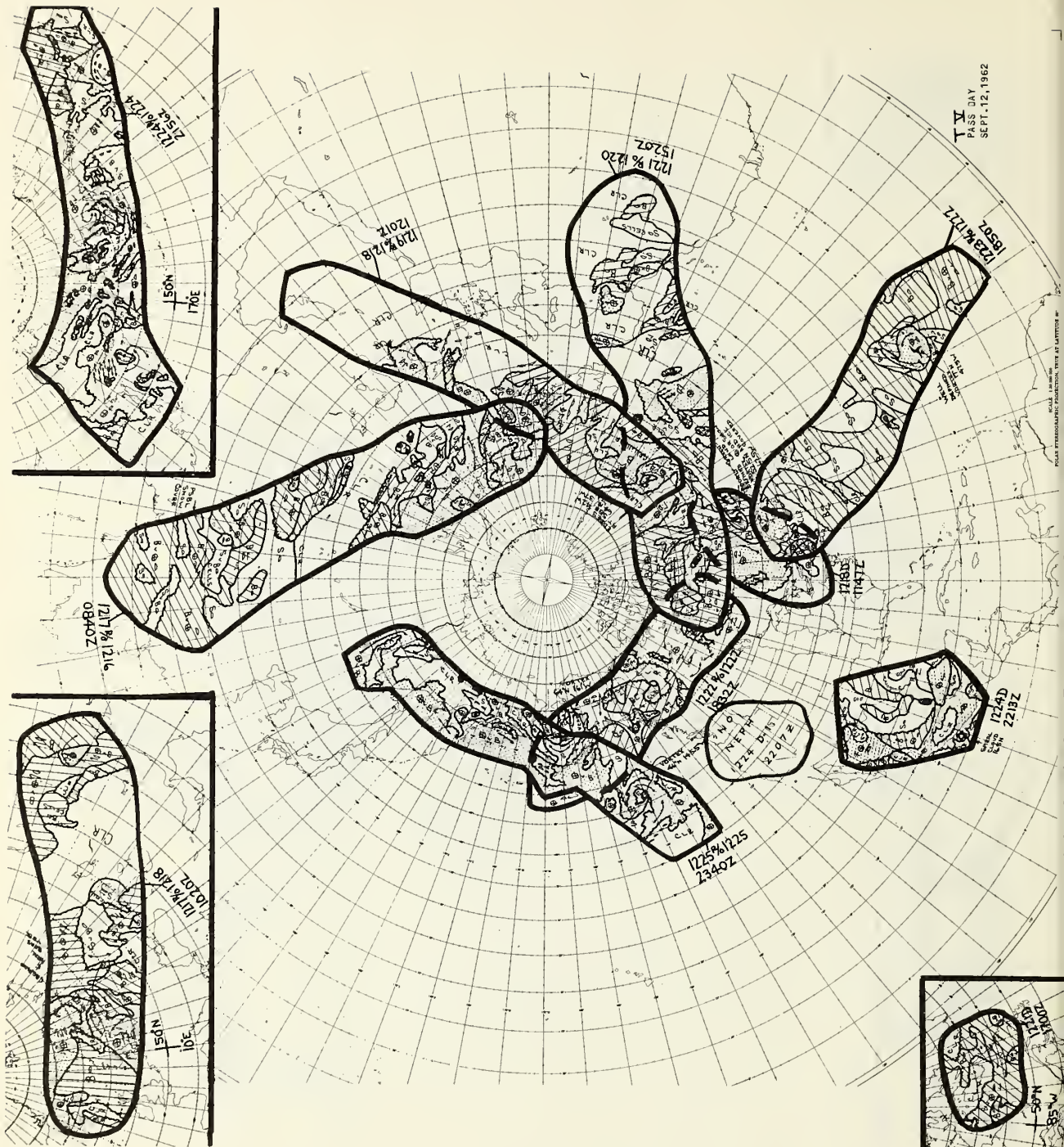






T V  
 PASS DAY  
 SEPT. 11, 1962





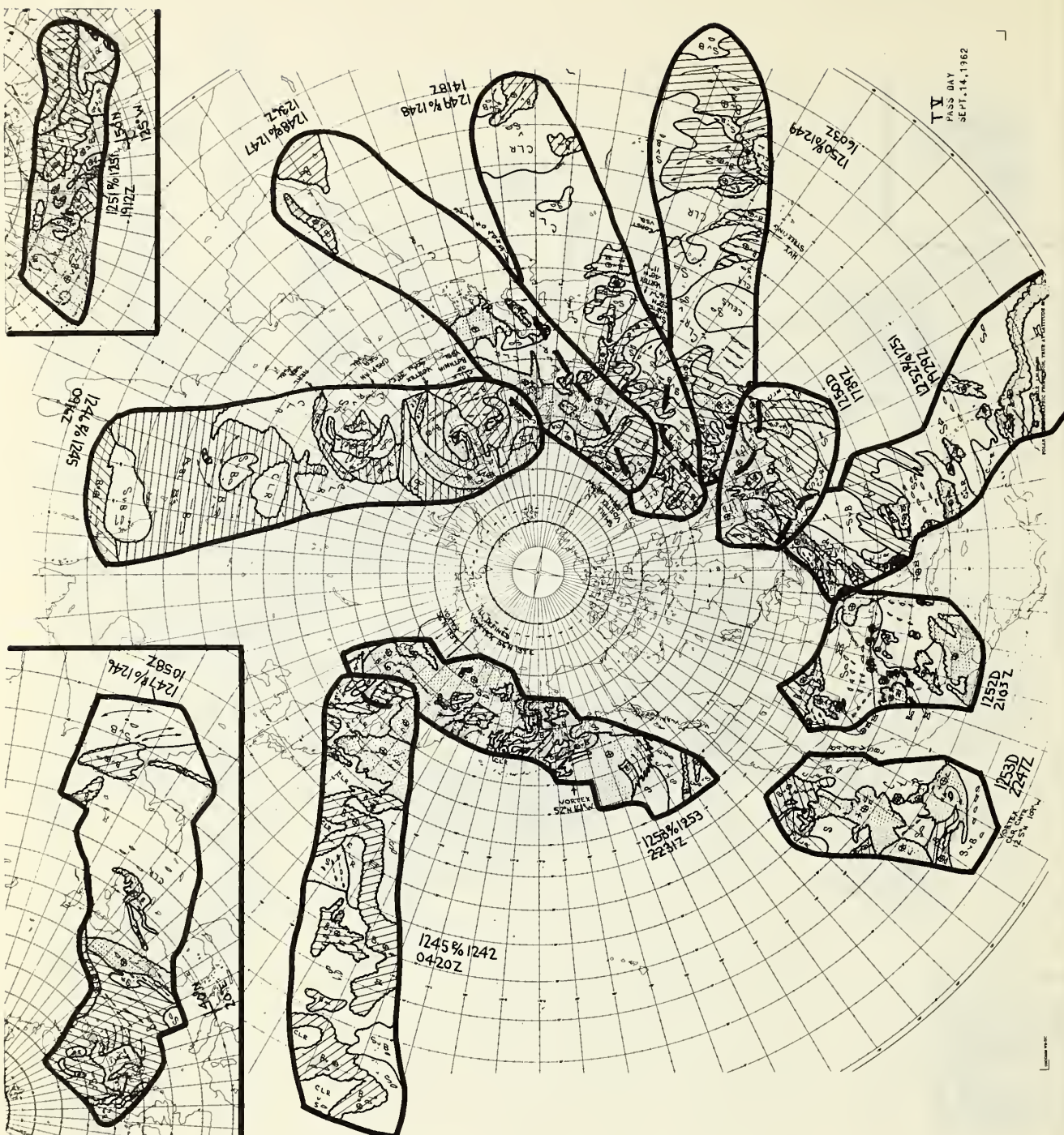
T.V.  
 PASS DAY  
 SEPT. 12, 1962



XX  
PASS DAY  
SEPT. 13, 1962



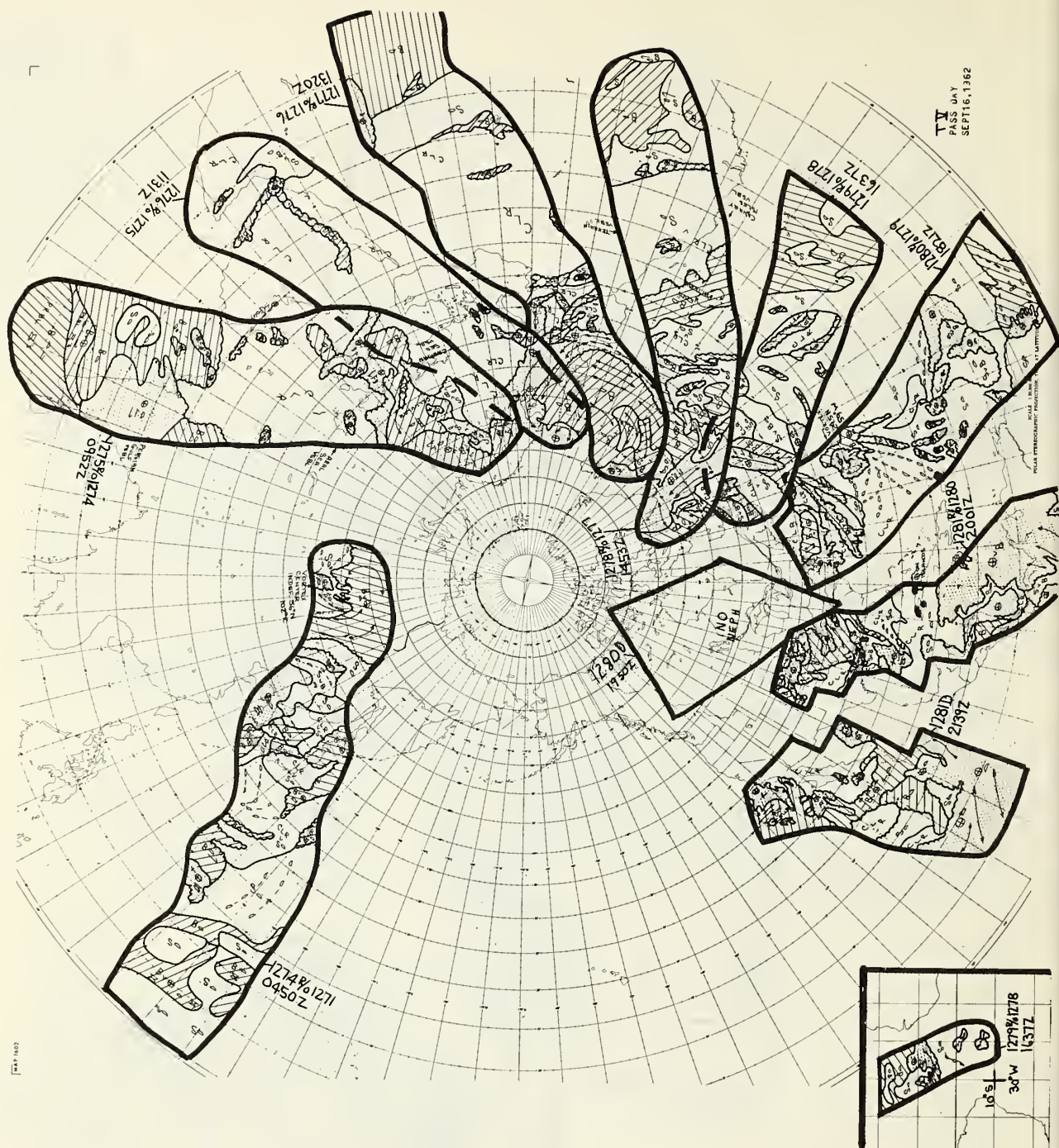
TV  
PASS DAY  
SEPT. 14, 1962

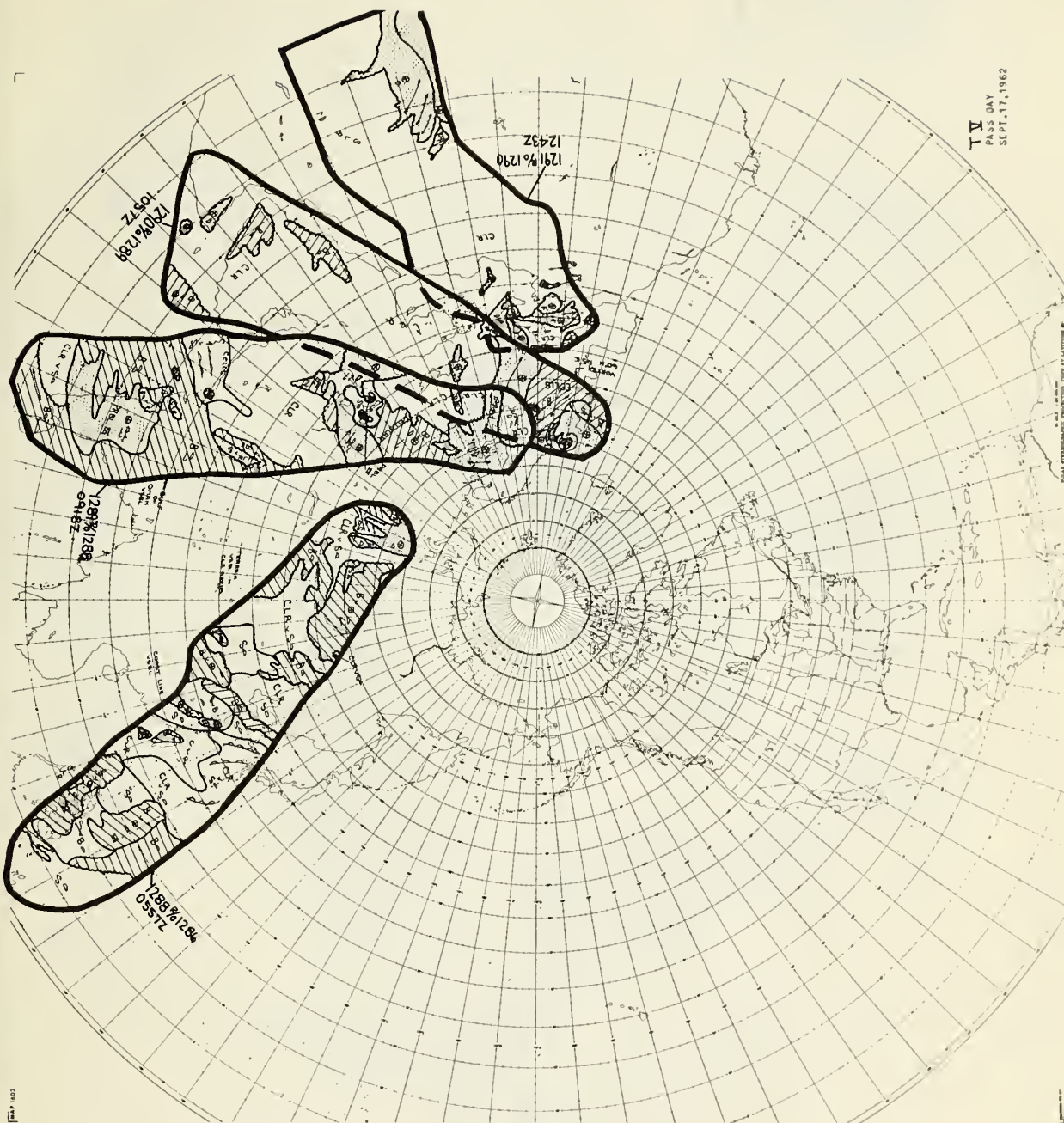








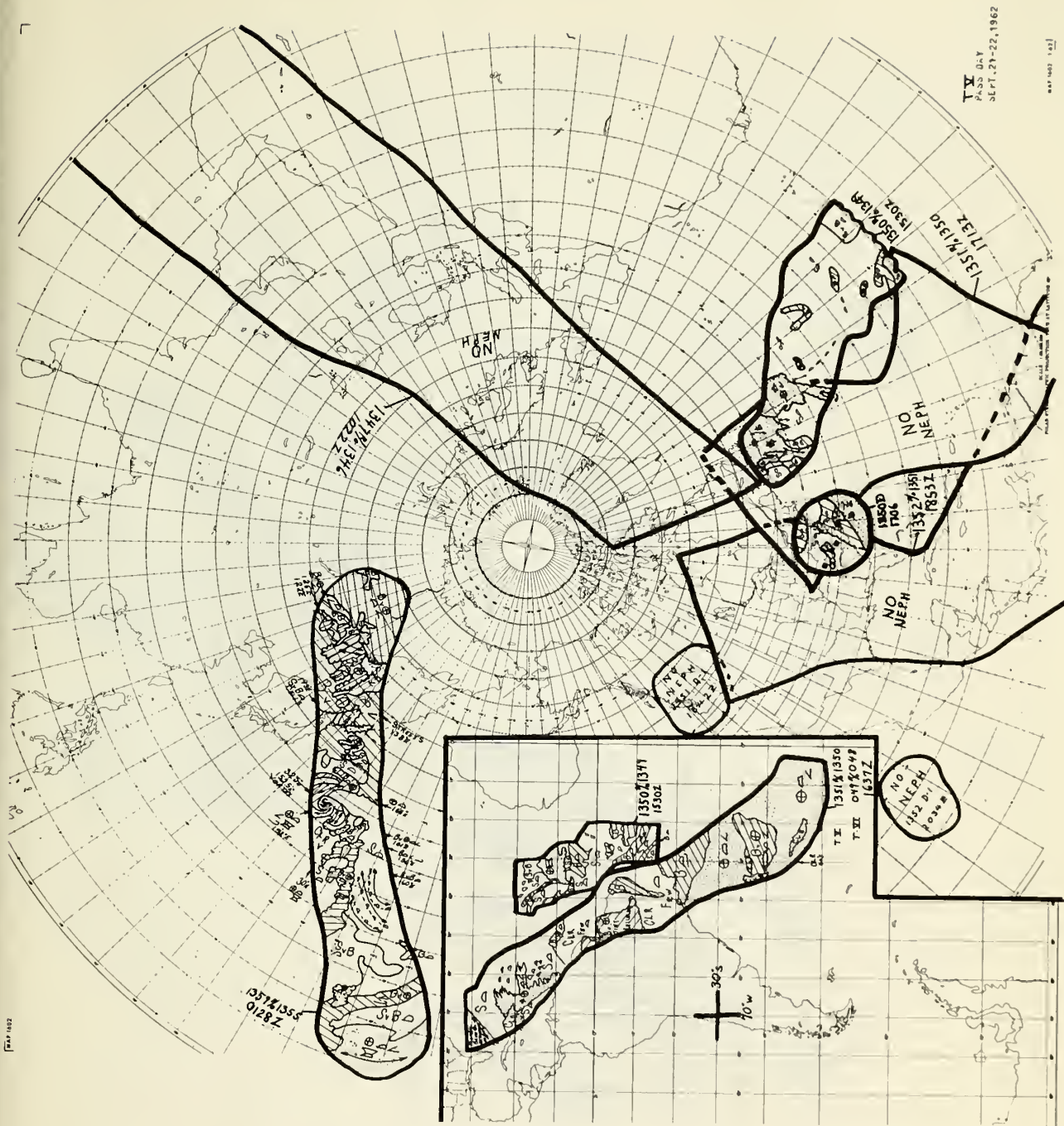




T  
 T  
 PASS DAY  
 SEPT. 17, 1962



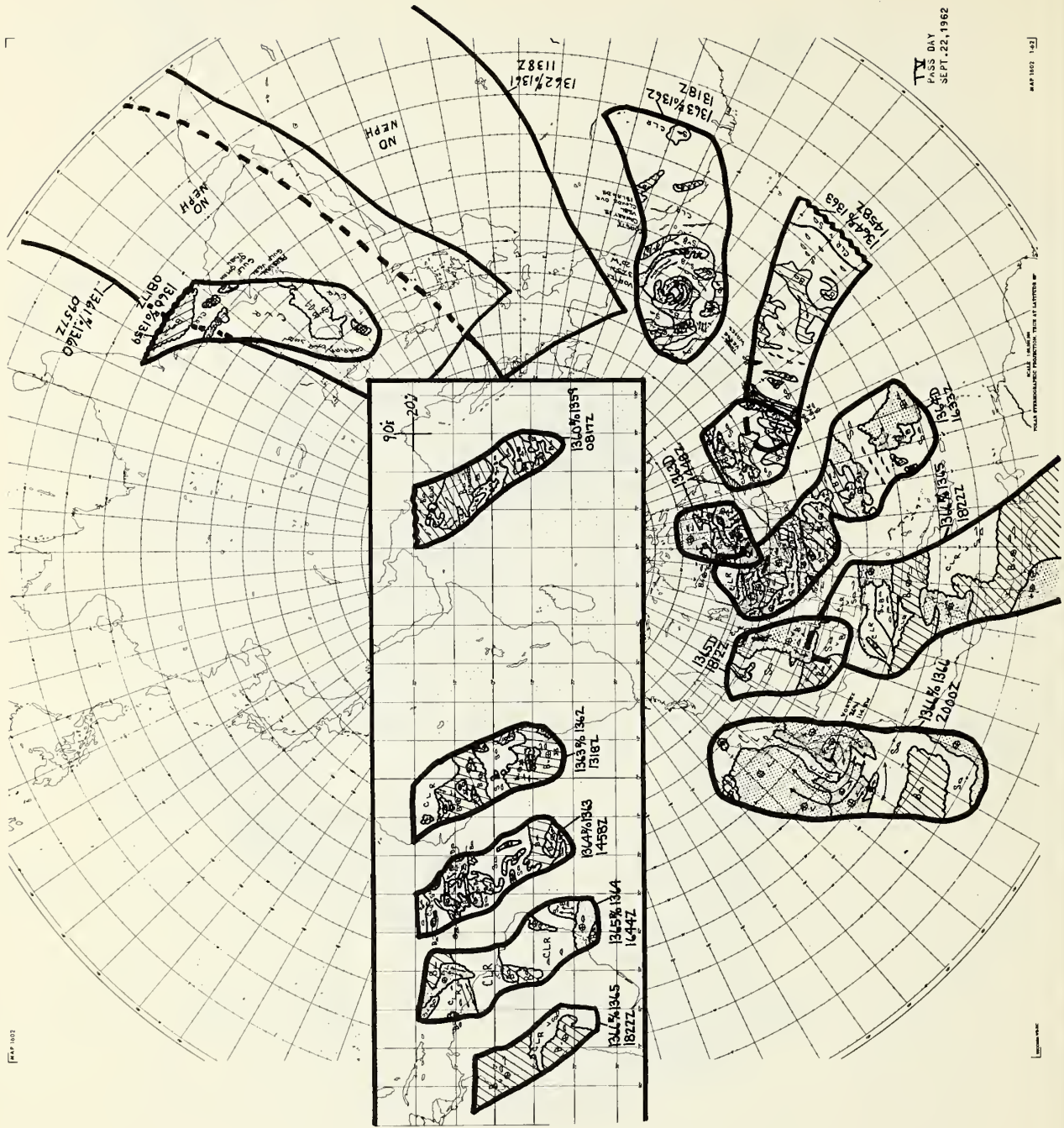




TX  
PASS 0-2  
SEPT. 21-22, 1962

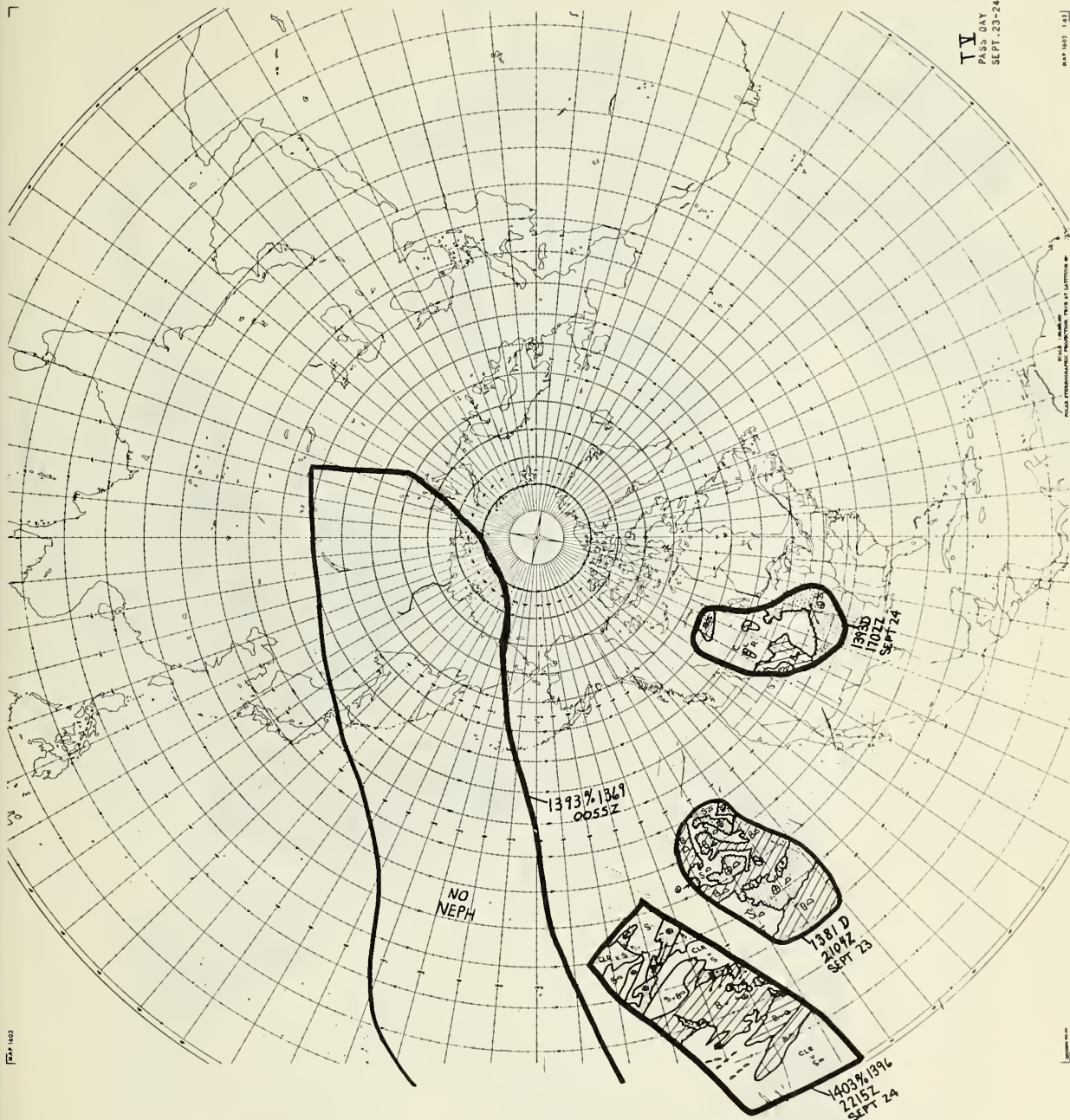
WAF 1002 1021





AT  
 PASS DAY  
 SEPT. 22, 1962

MAP 1002 1-62



TV  
PASS DAY  
SEPT 23-24, 1962

NOV 1962 121





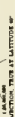












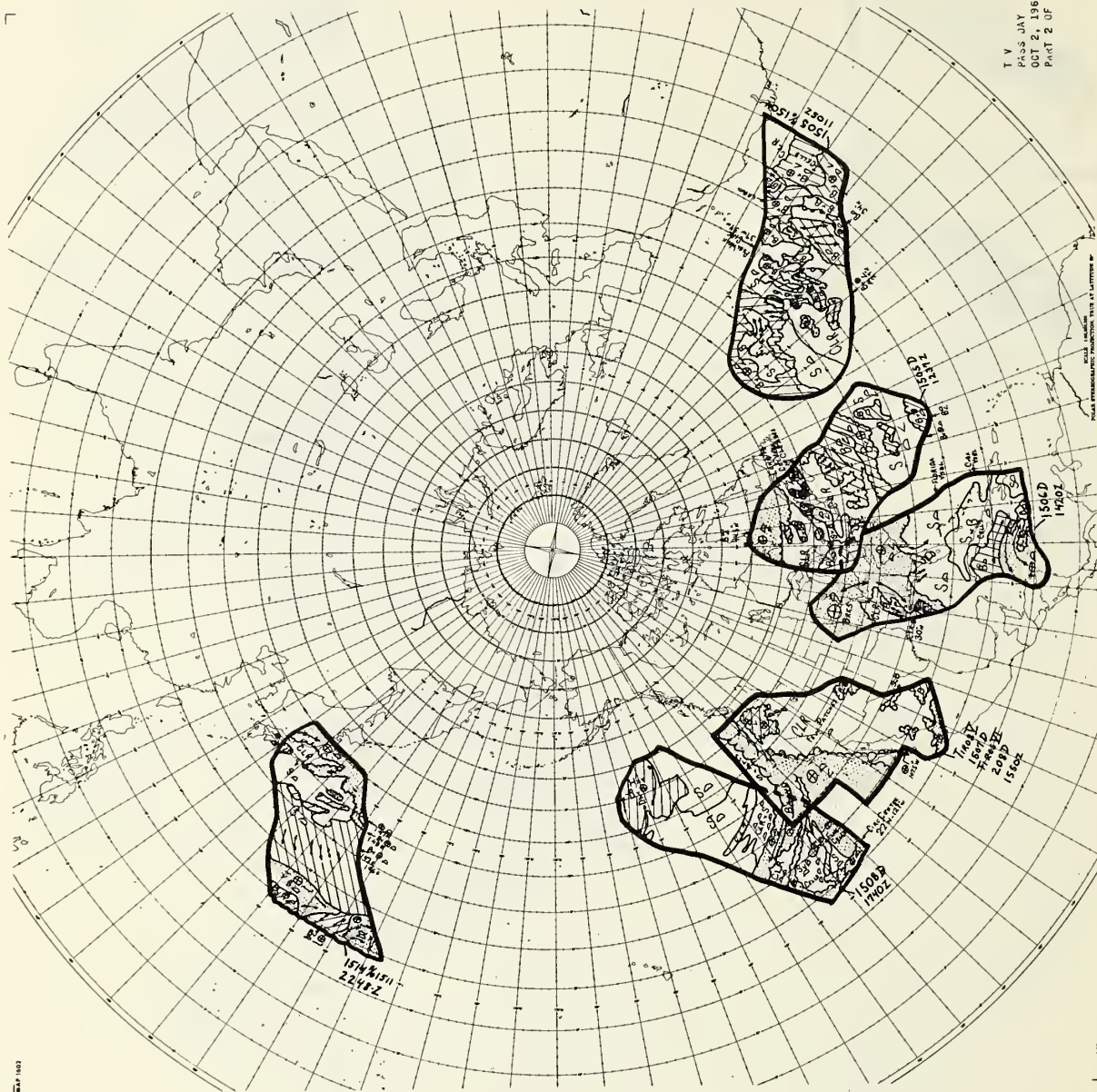








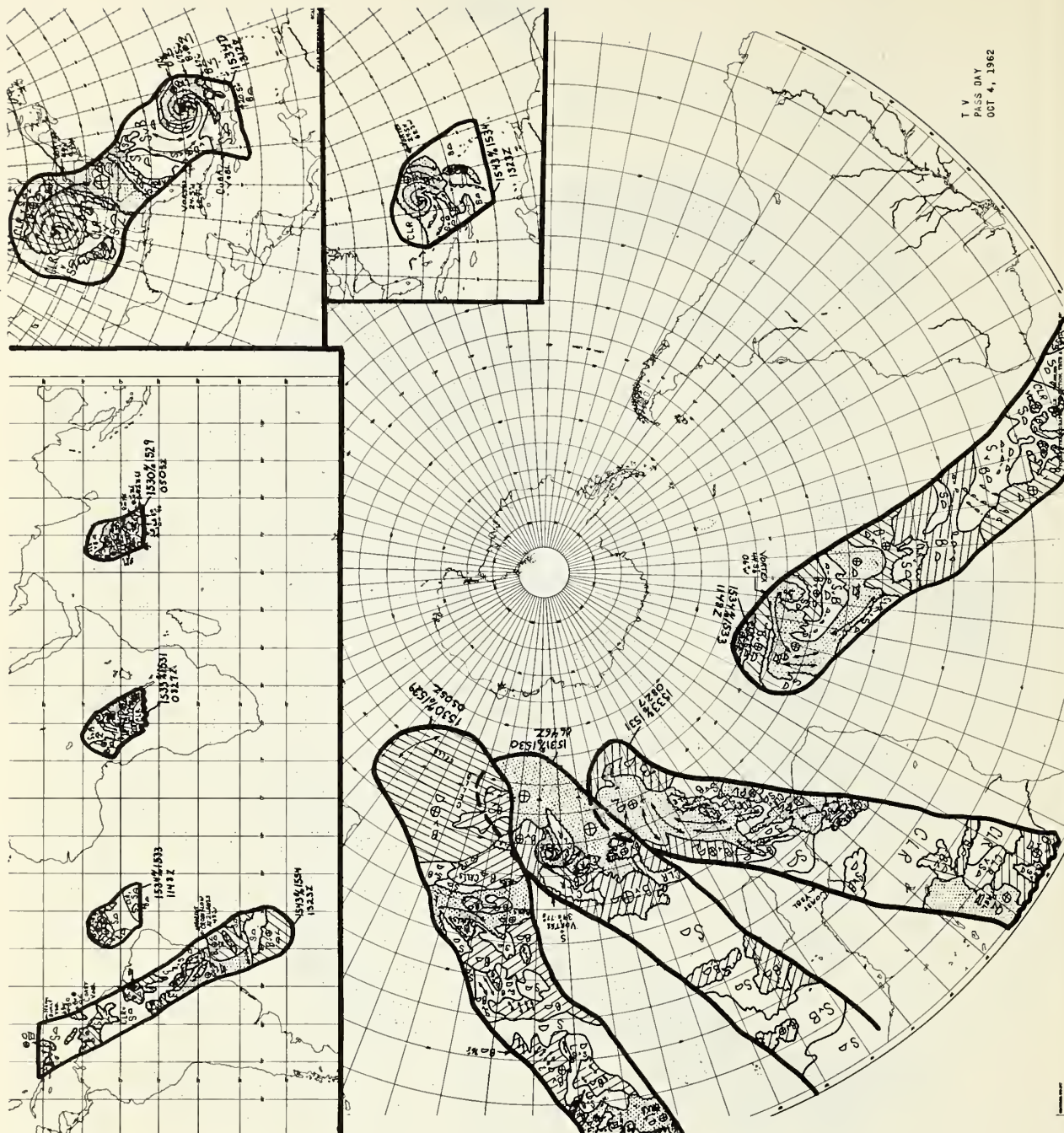


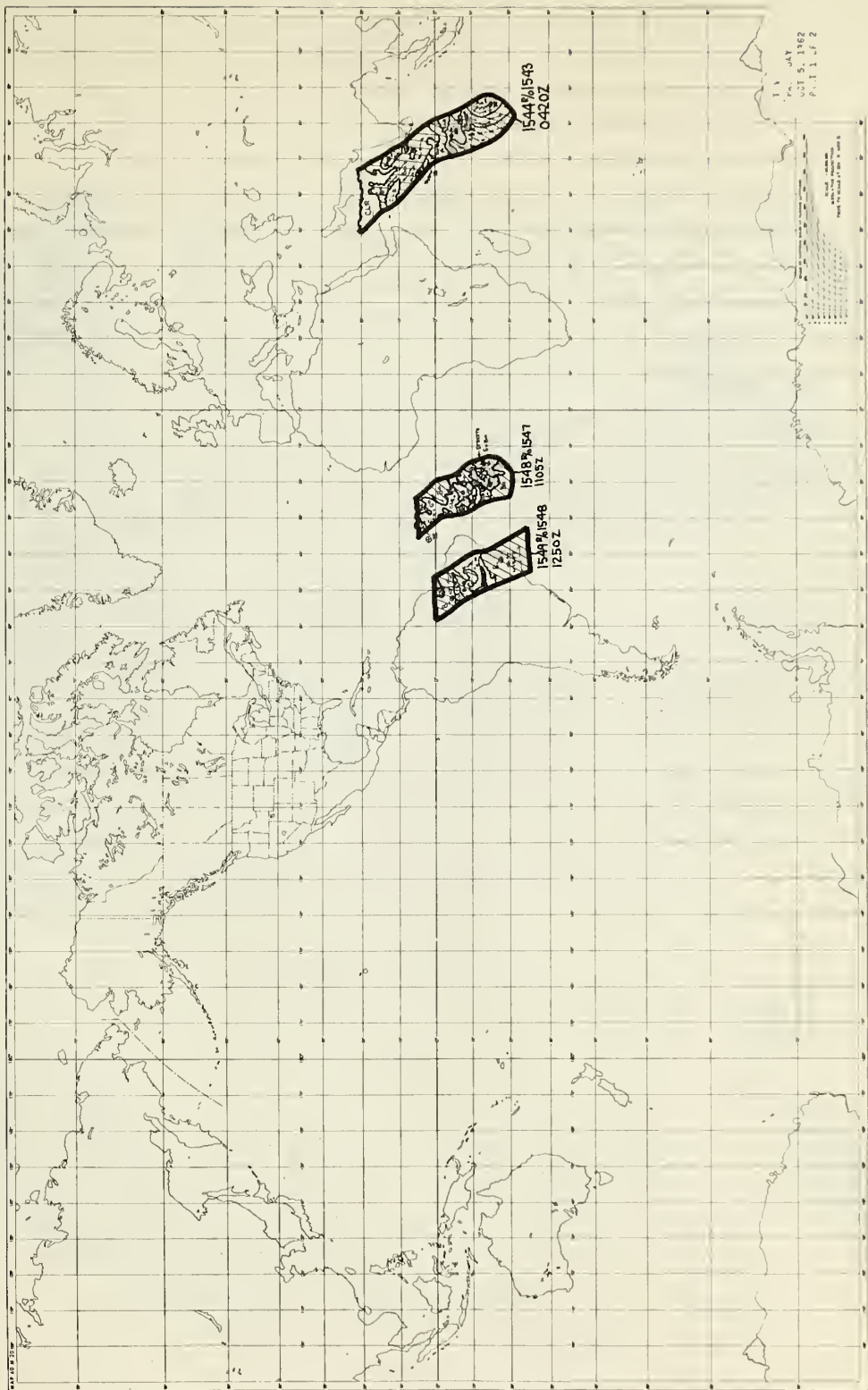


T V  
PALS JULY  
0012 1382  
PART 2 OF 2

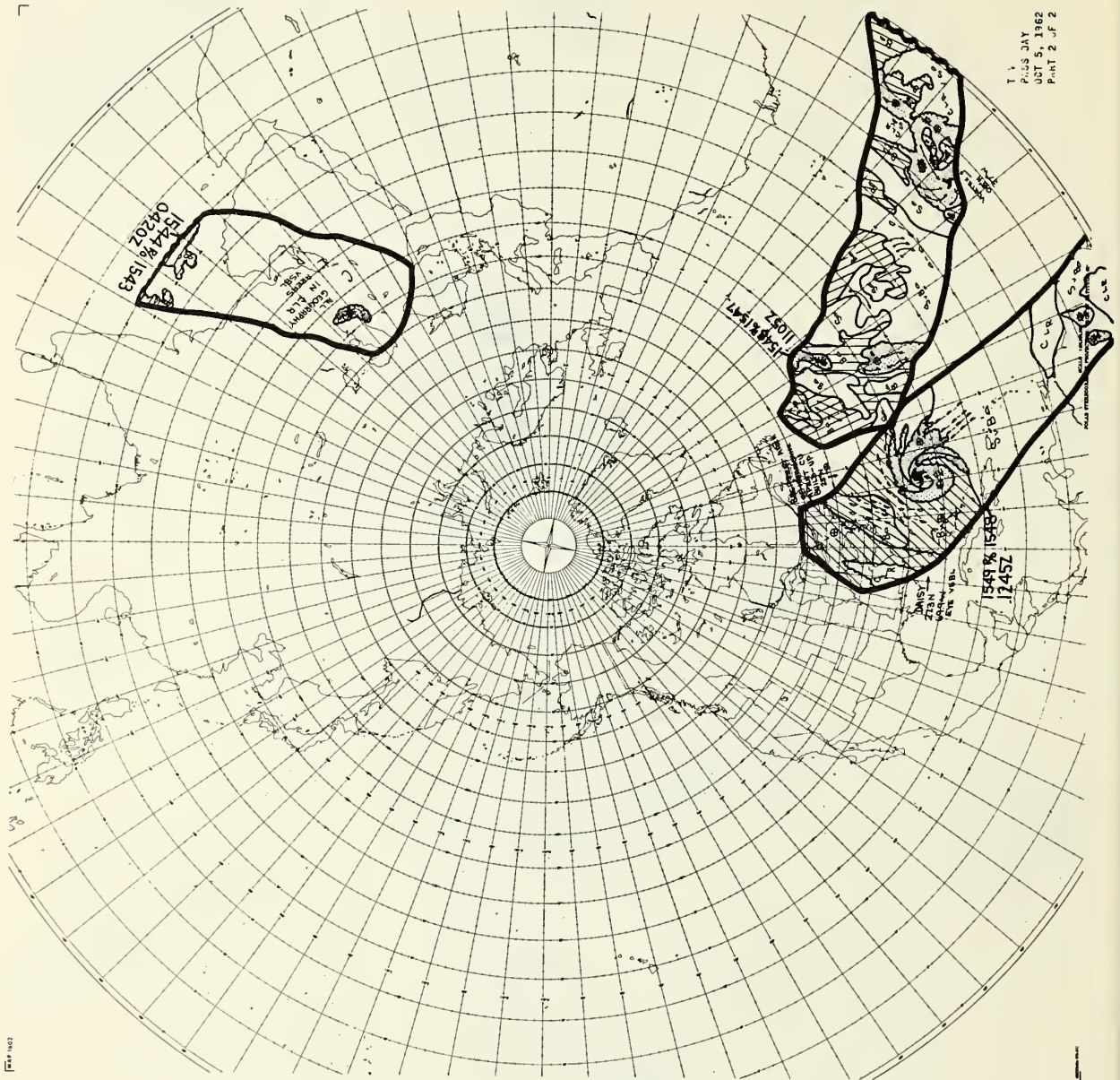






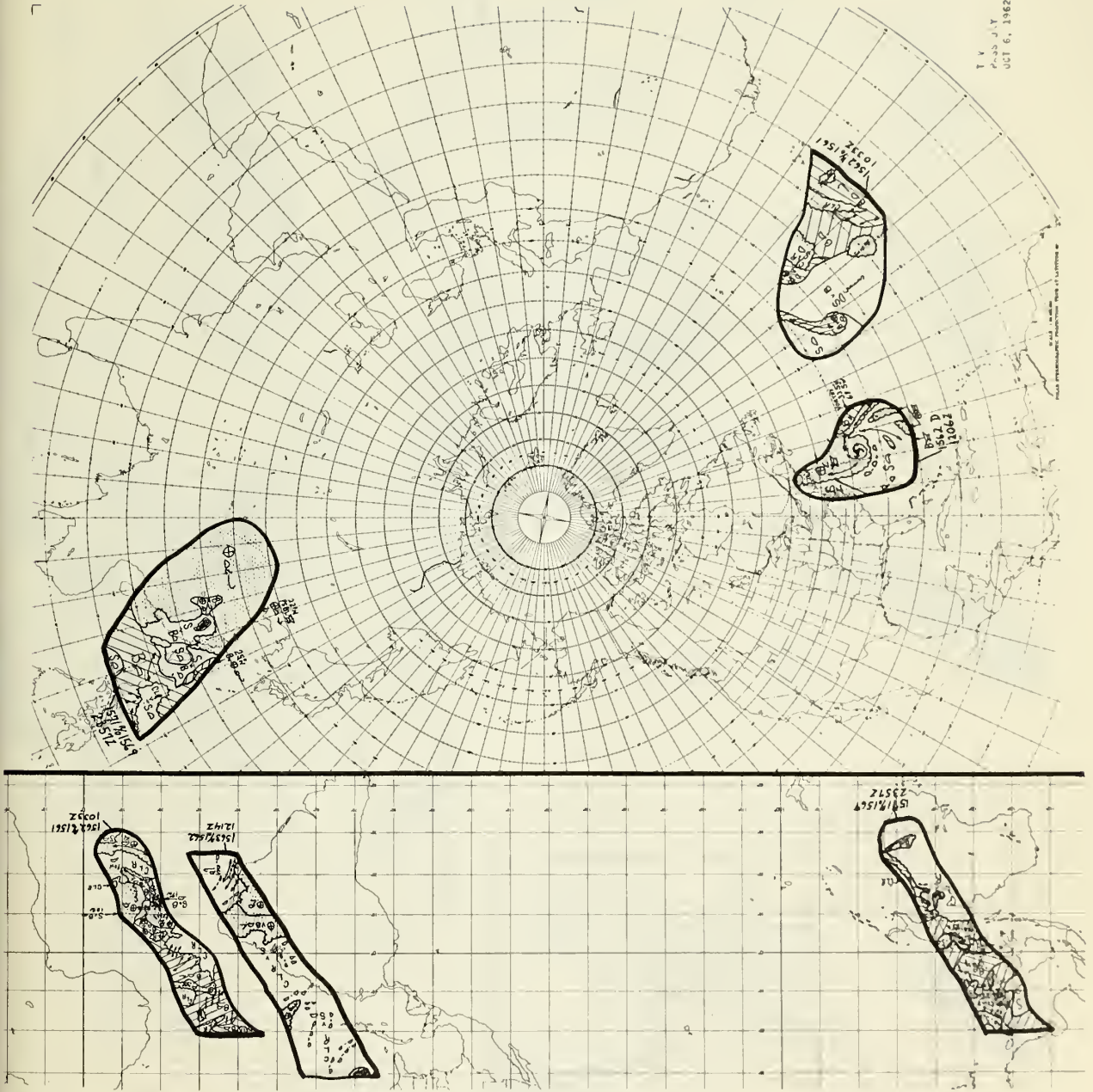






T 1  
PASS DAY  
JUL 5, 1962  
PART 2 OF 2

T V  
 2-25 J.Y.  
 OCT 6, 1962





T V  
PASS JULY  
OCT 7, 1962

1572% 1571  
0316Z

1576% 1575  
0935Z

1574% 1575  
0935Z

1574% 1578  
1501Z

NO NEPH

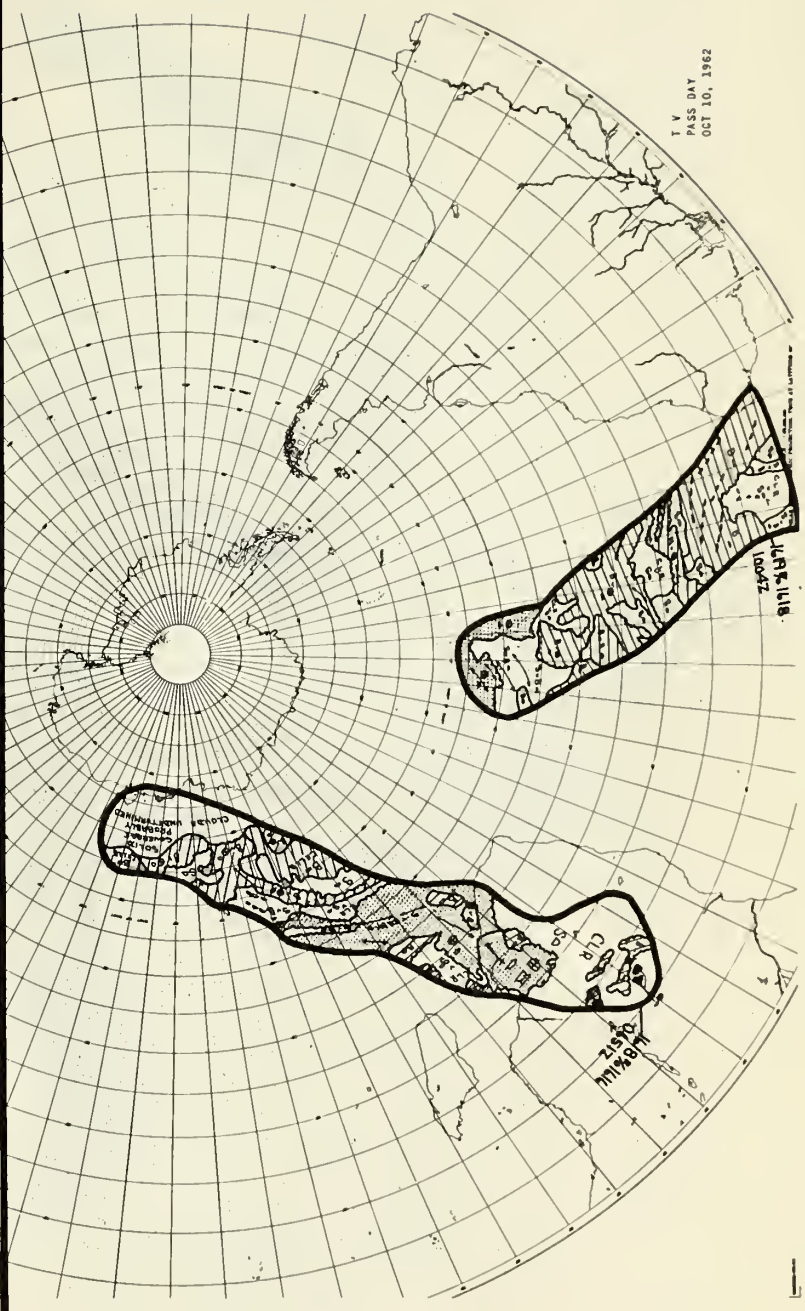
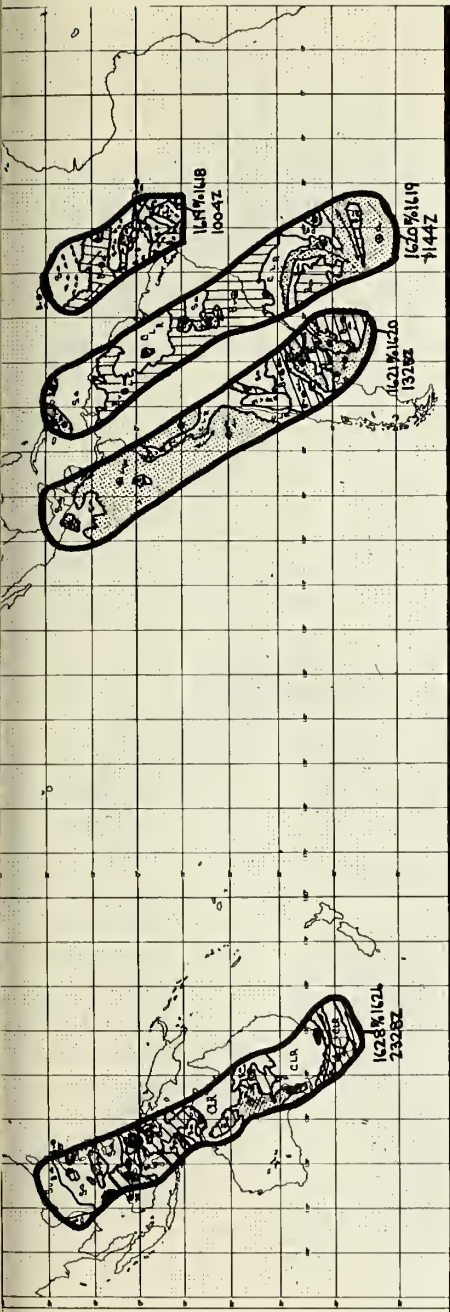
CLR

10° + 160°W





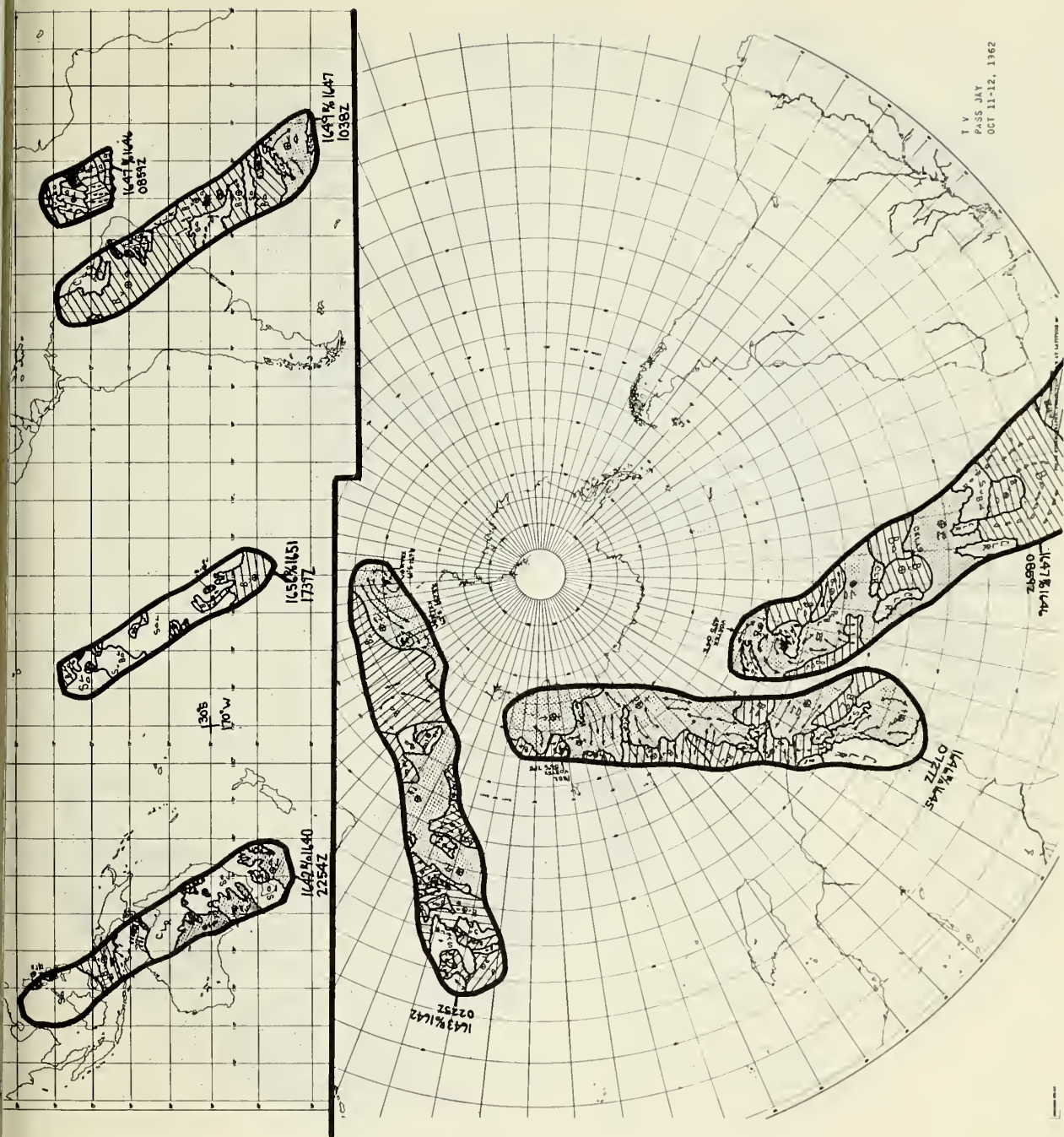




T V  
PASS DAY  
OCT 10, 1962



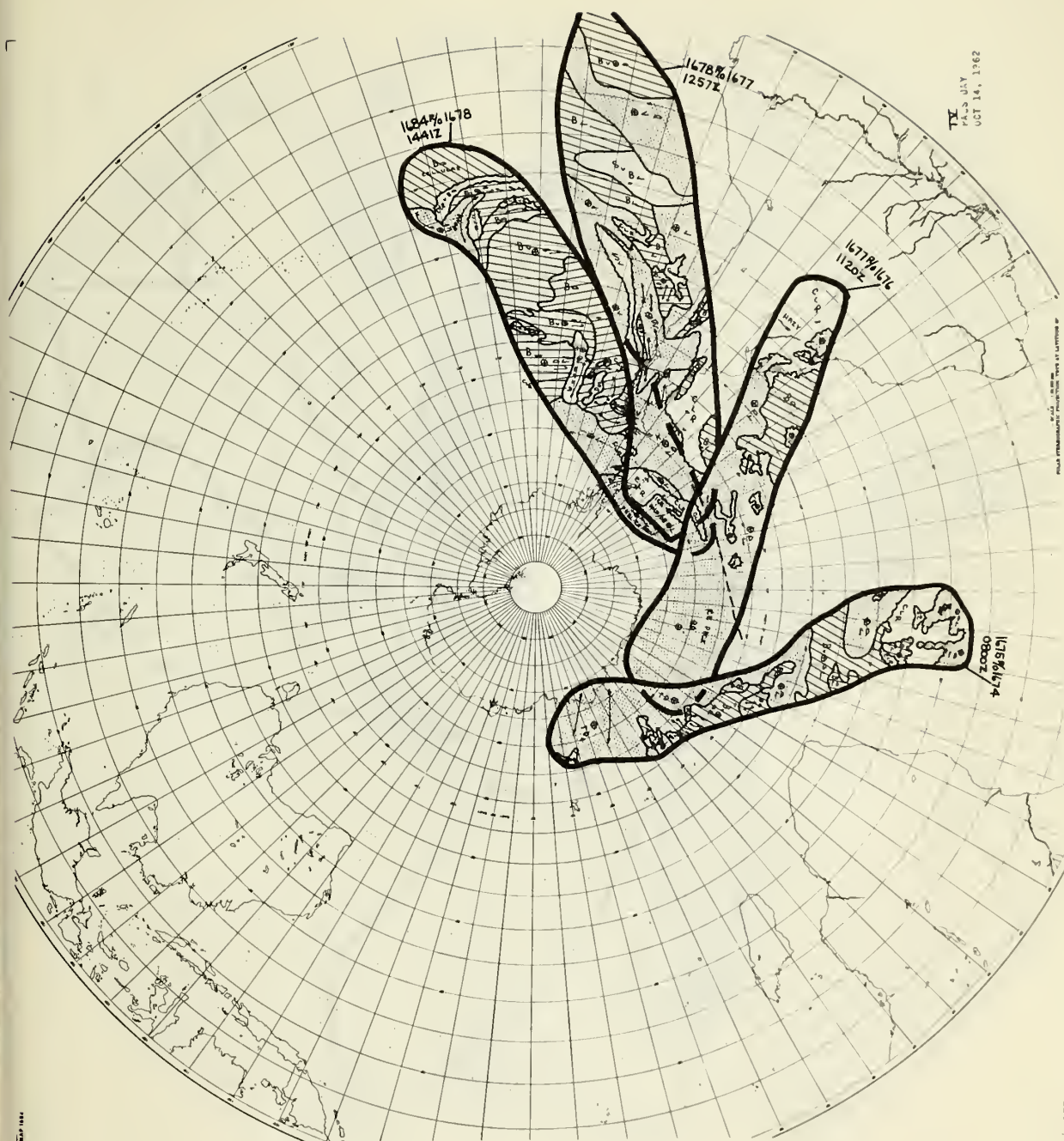




T V  
PASS JAY  
OCT 11-12, 1962

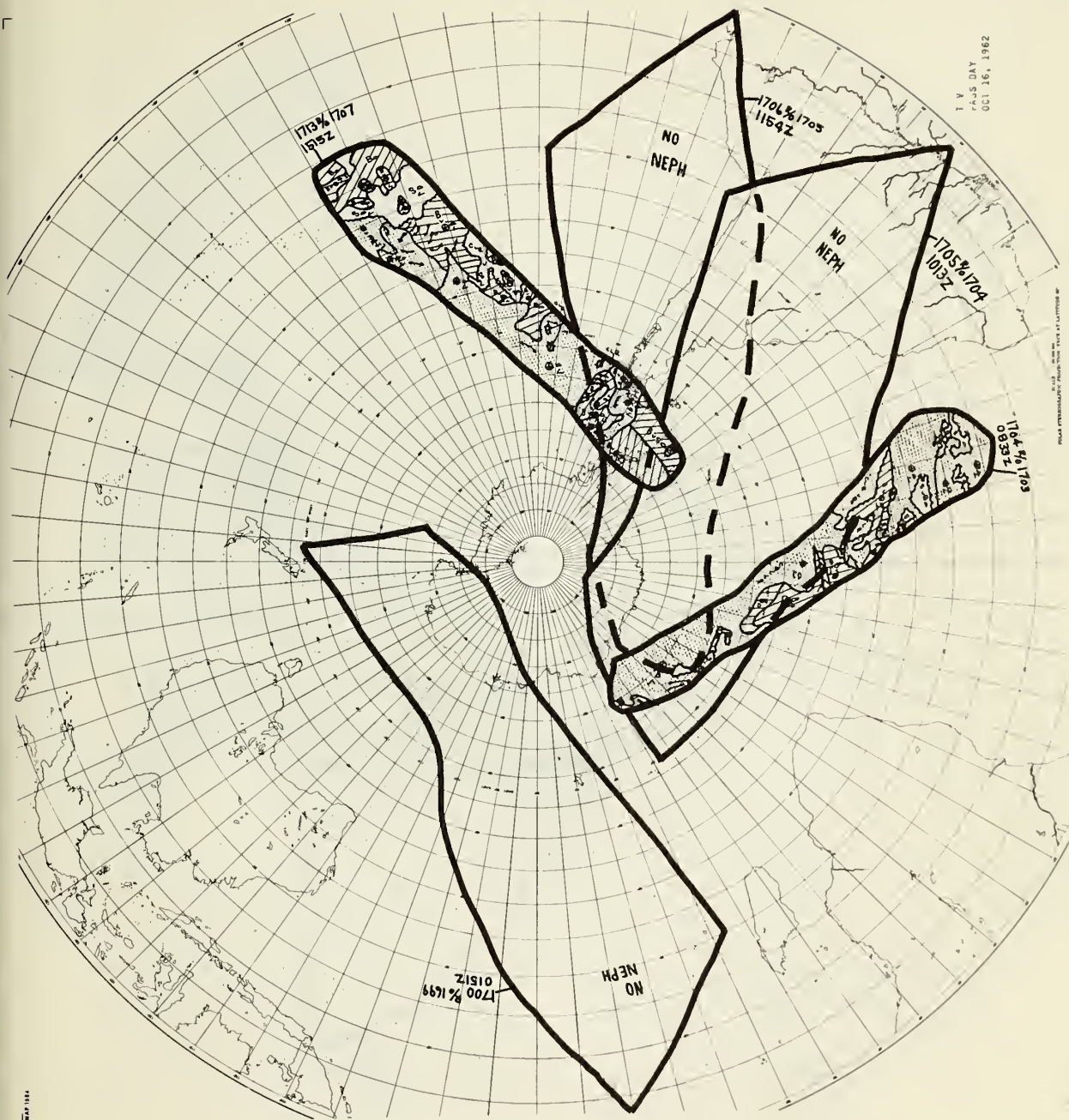




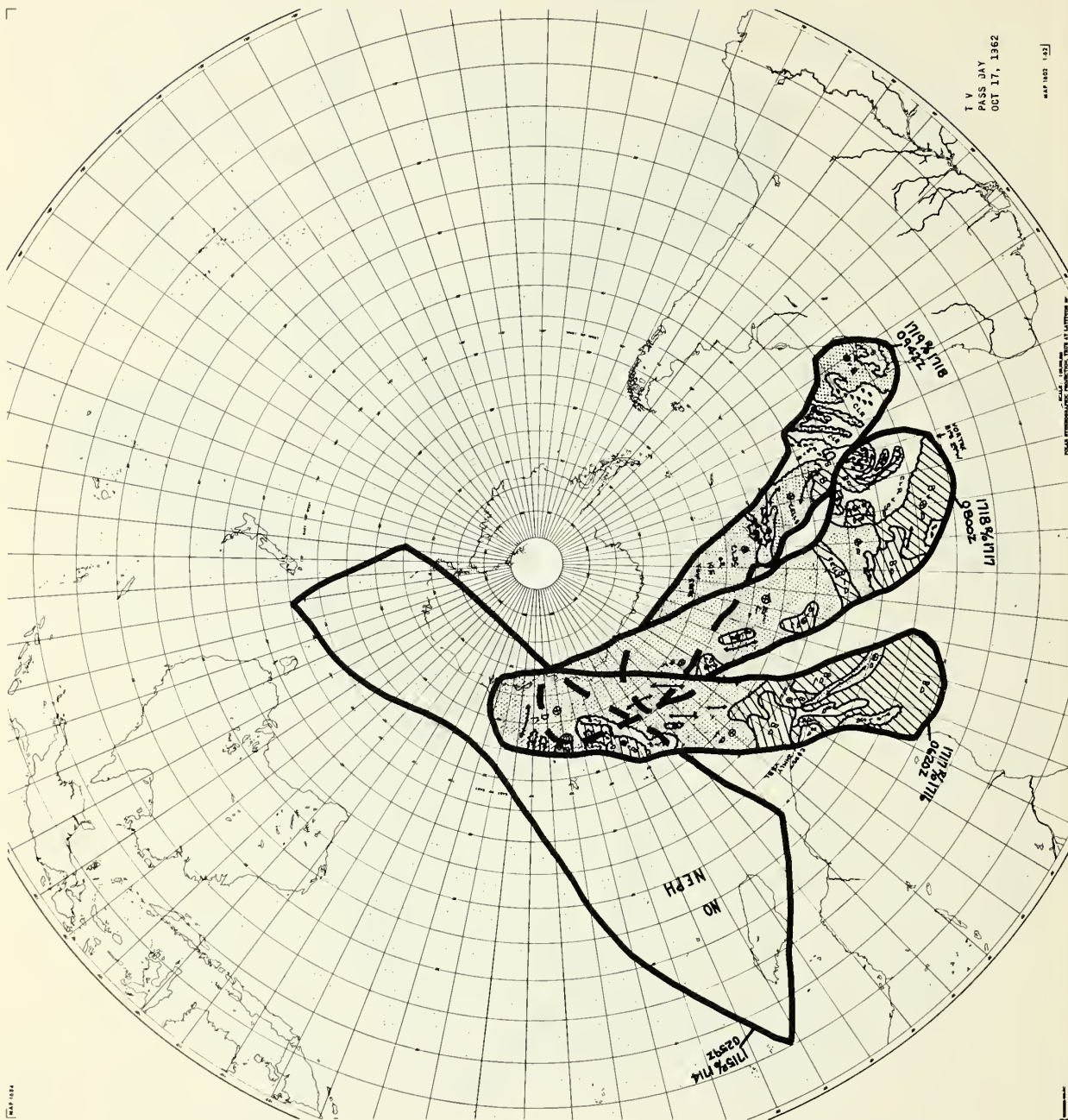


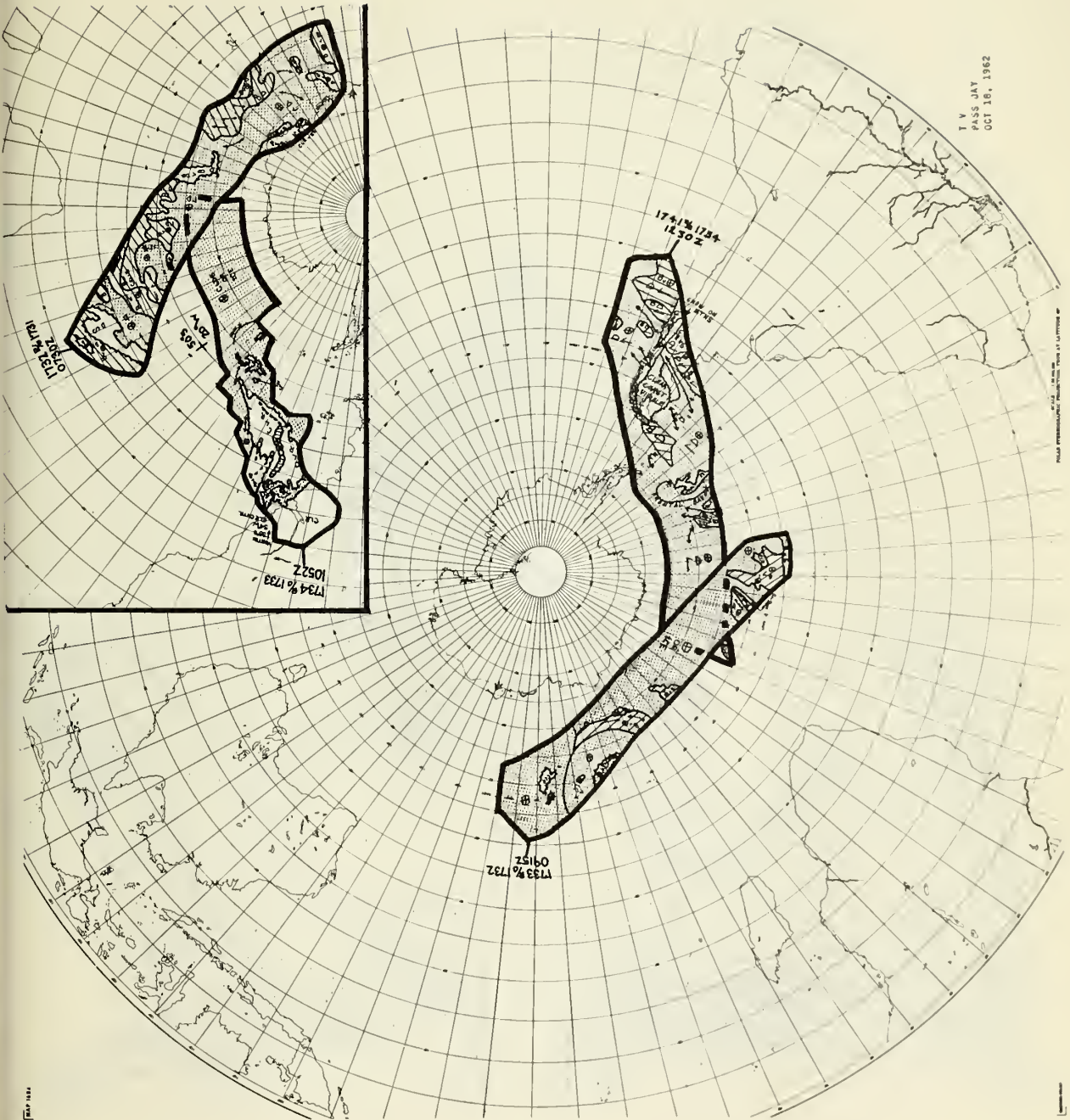








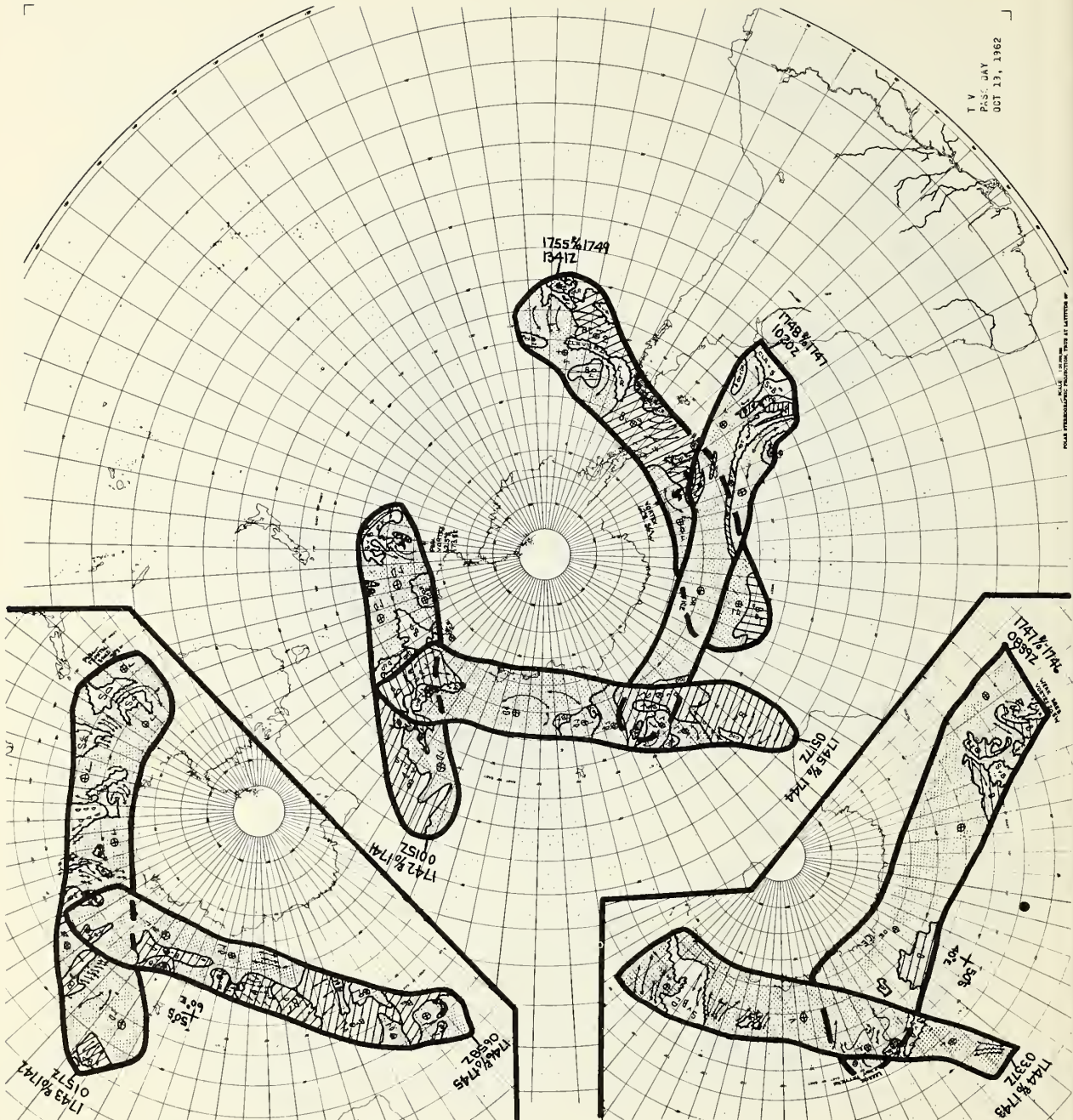


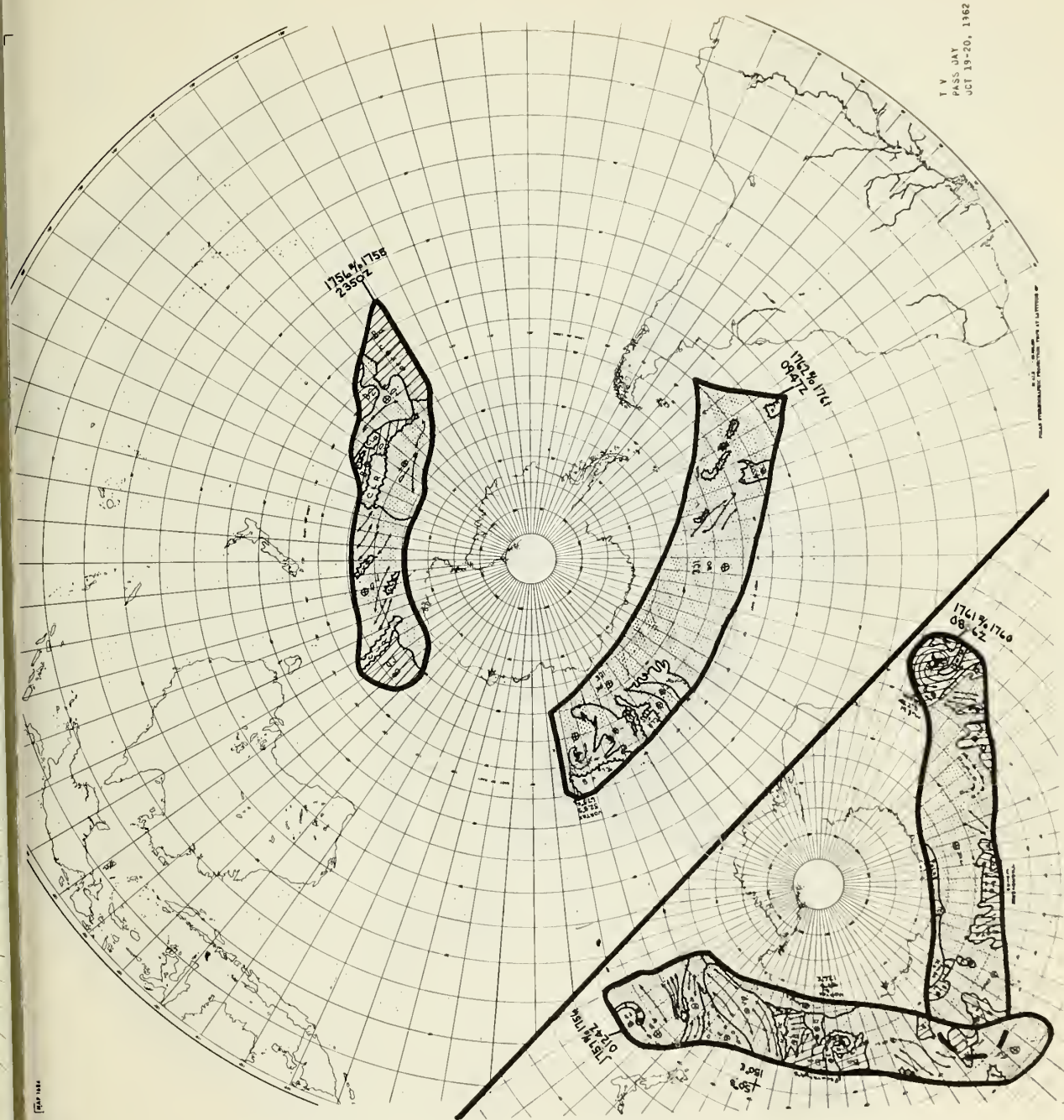


1 V  
PASS JAY  
OCT 16, 1962



T.V.  
PAC. OLY  
OCT 13, 1962



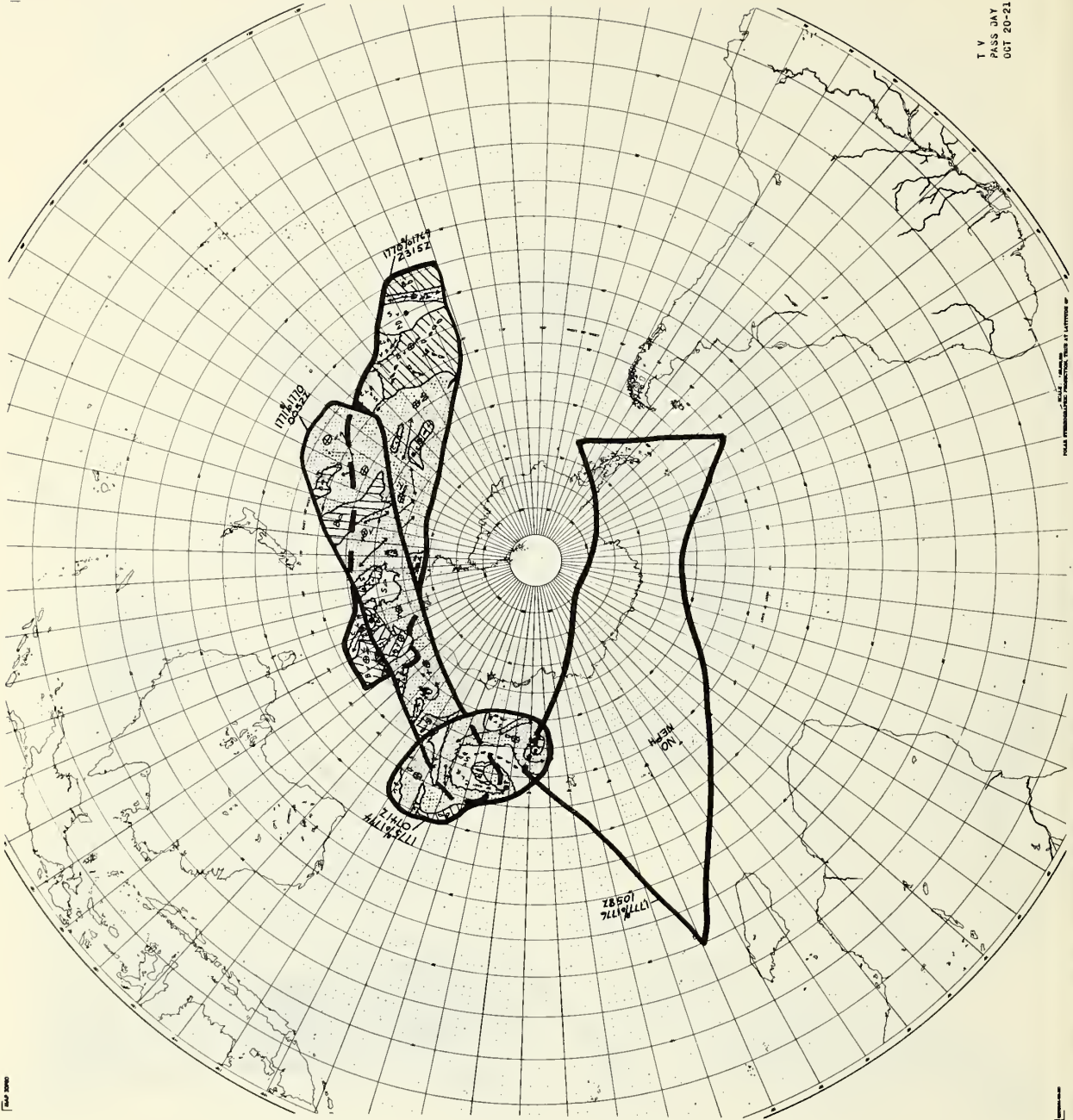


T V  
PASS JAY  
JUL 19-20, 1962

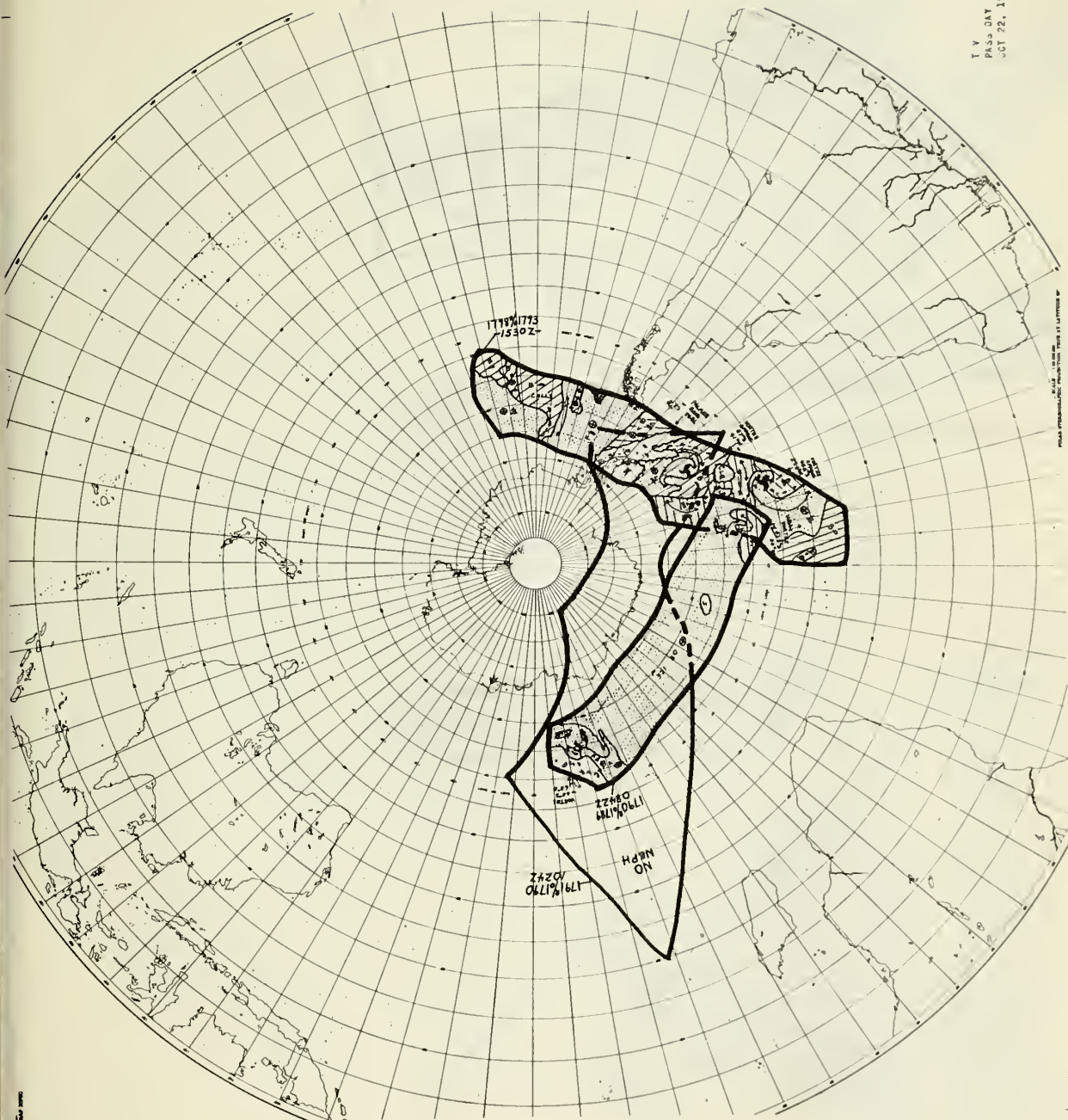
U.S. AIR FORCE  
POLAR PROJECTION MAPS, TYPE 1, LAMBERT



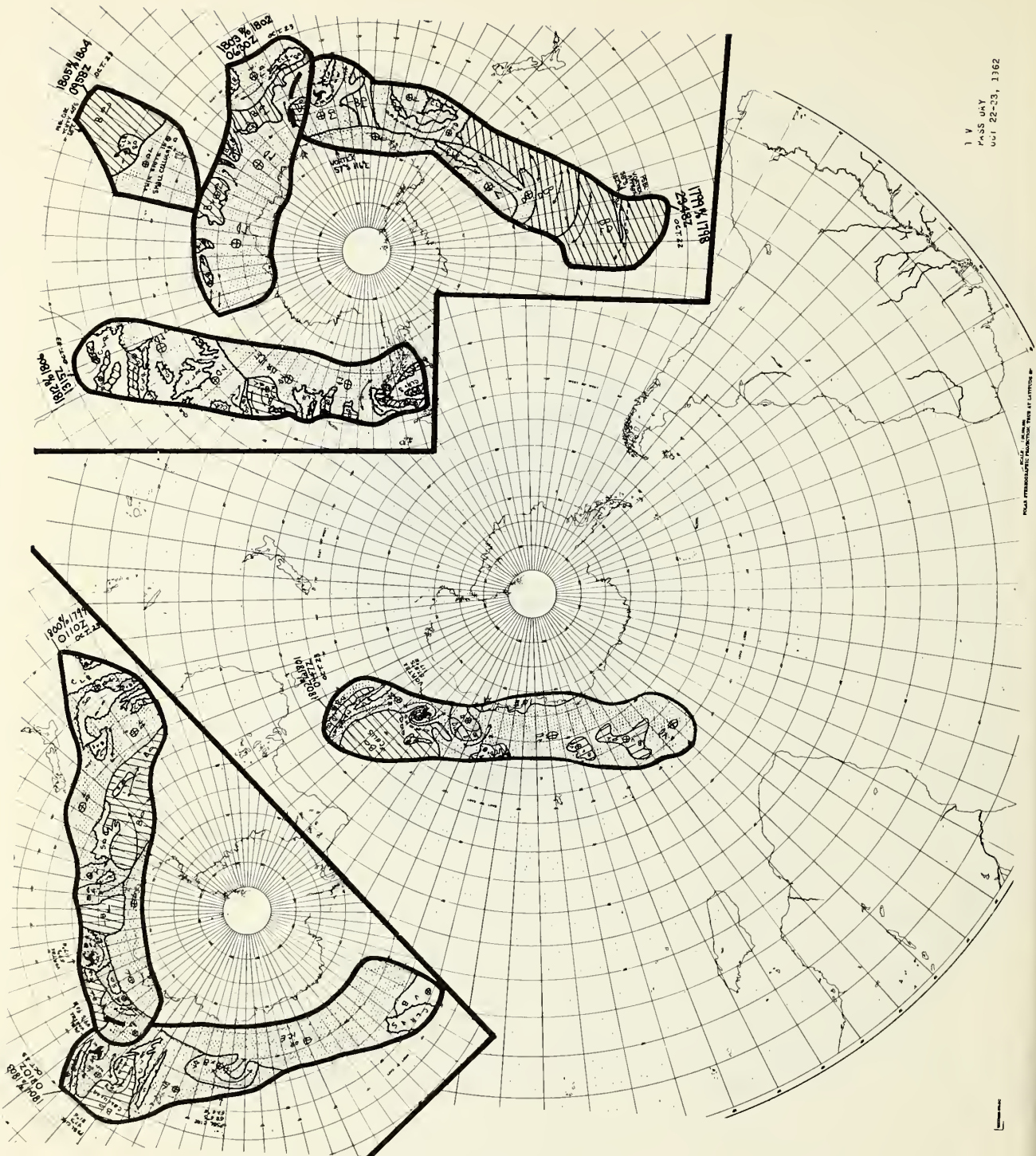
T V  
PASS DAY  
OCT 20-21, 1962



T V  
PASS-DAY  
JUL 22, 1962



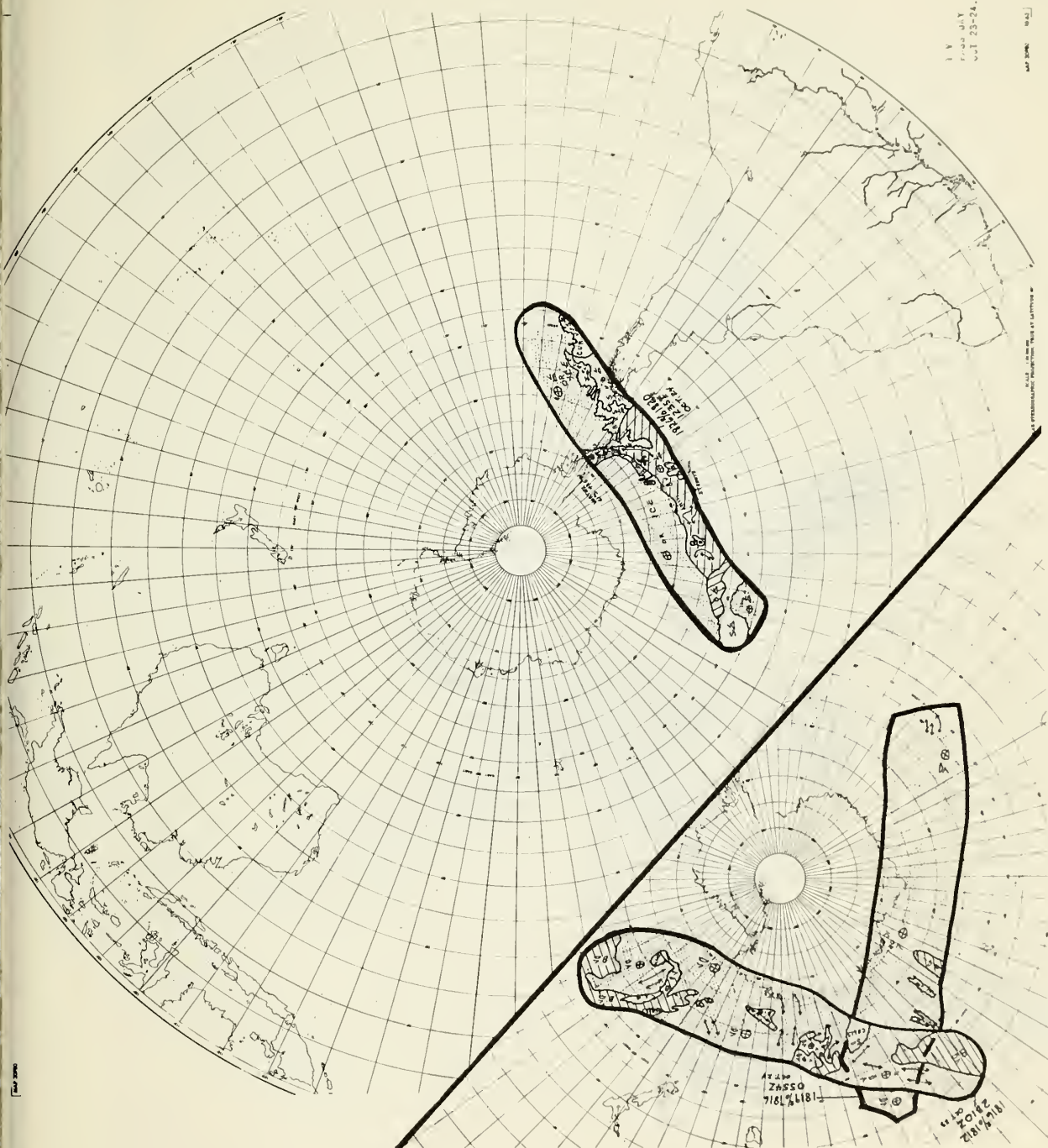




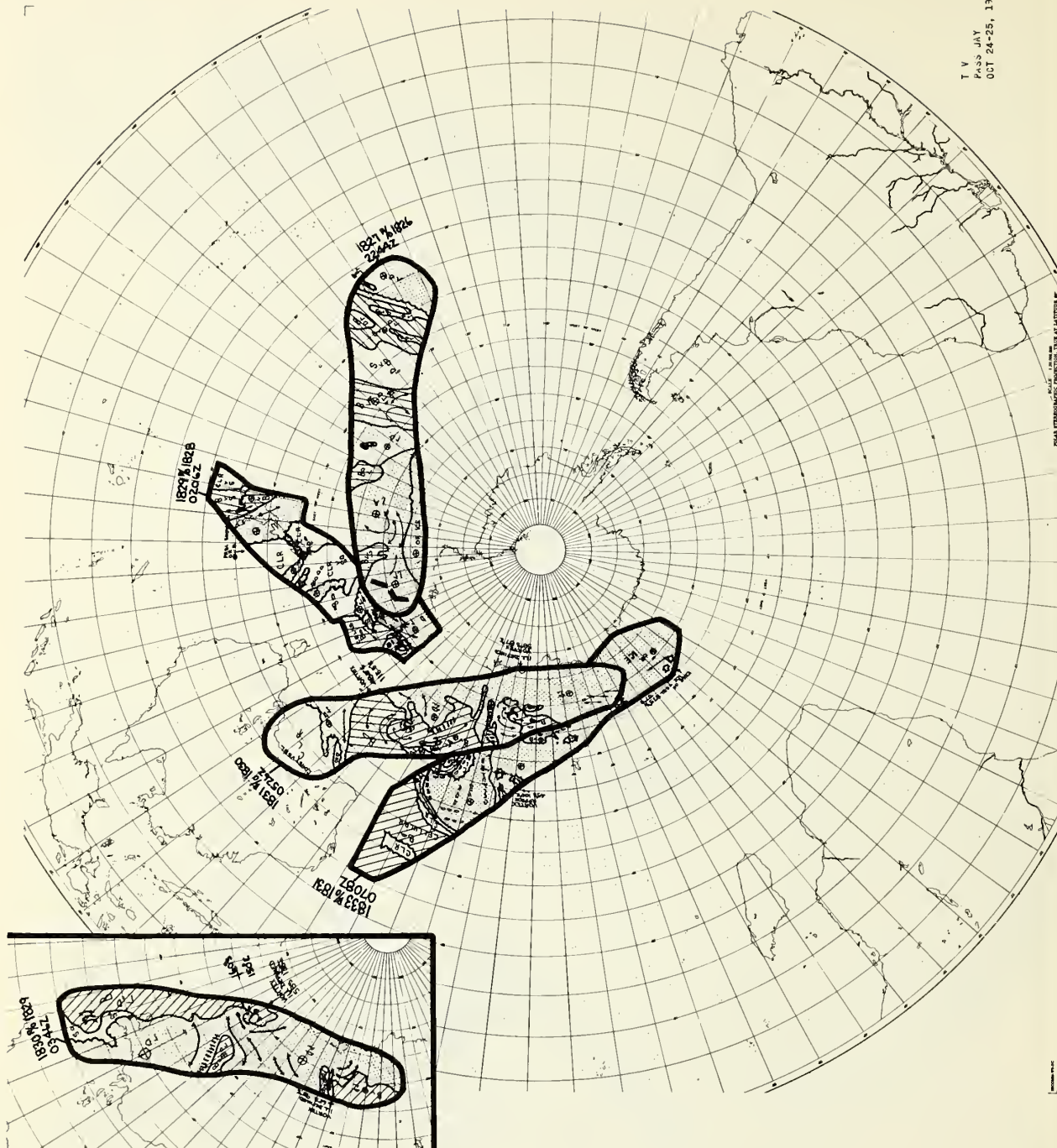
1 V  
PASS DAY  
JUL 22-23, 1962

PLANS BY THE ARMY, NAVY, AND AIR FORCE

1948-49

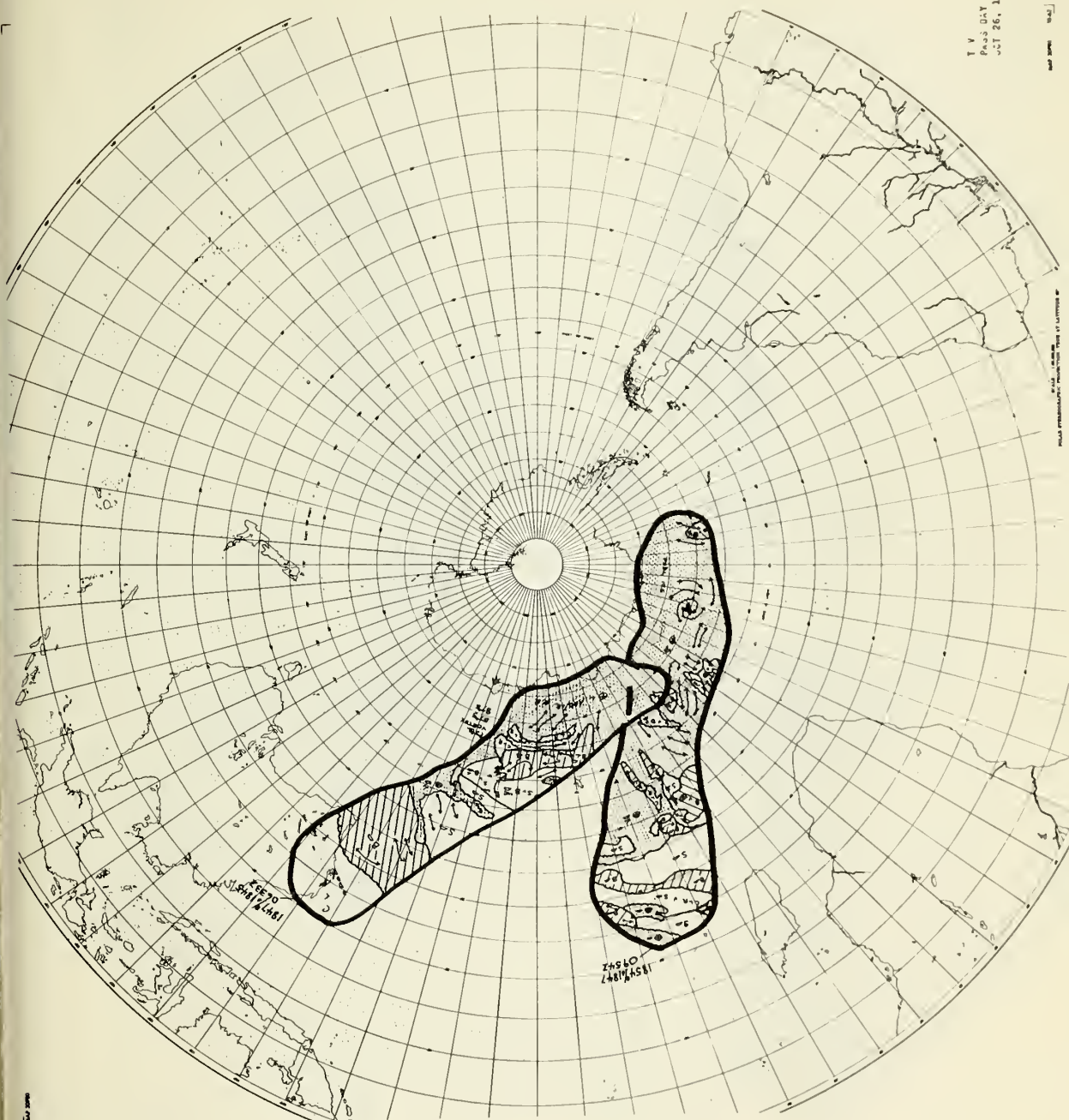






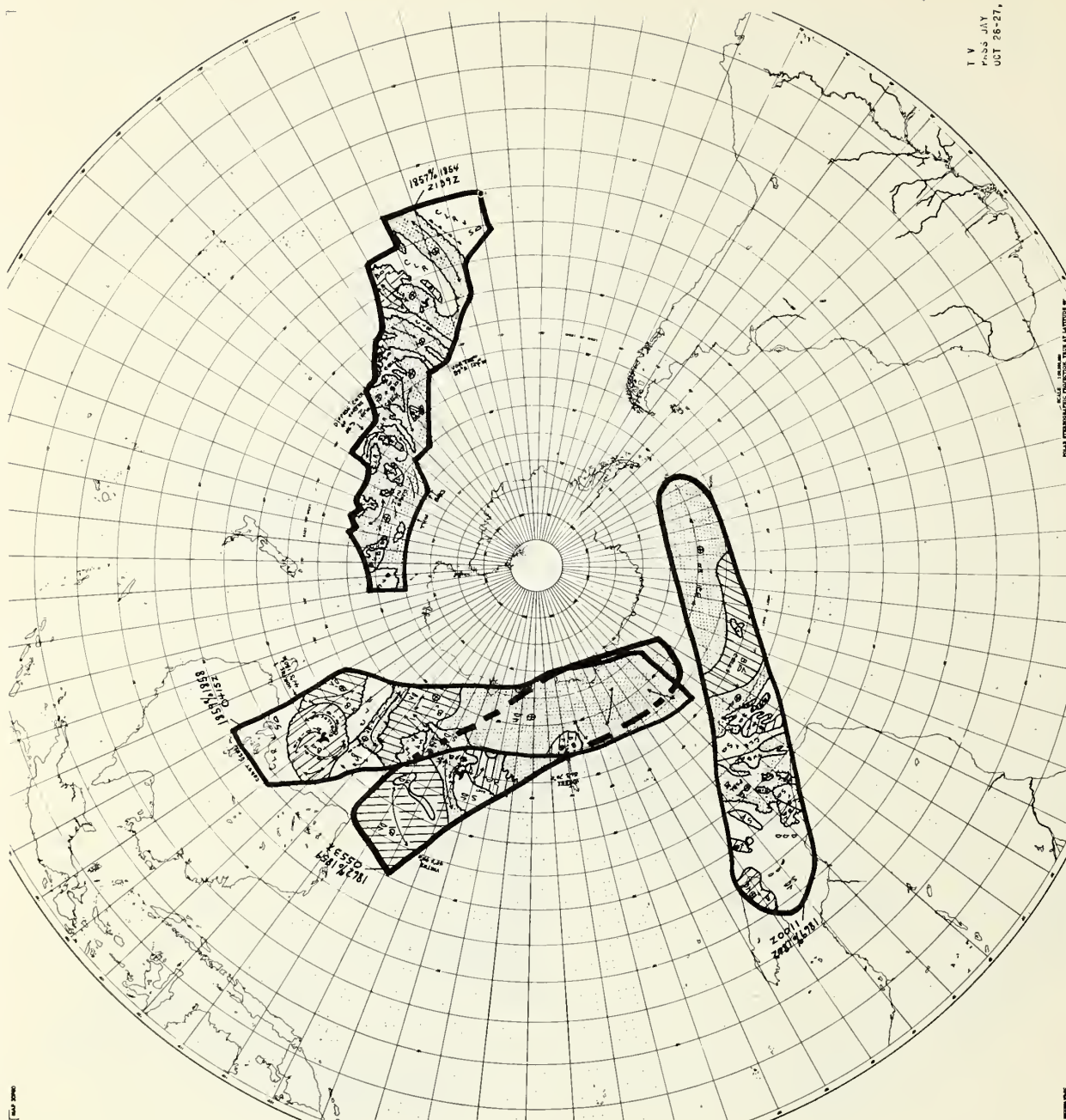
T V  
PASS JAY  
OCT 24-25, 1962

1998





T W  
PASS JAY  
OCT 26-27, 1962





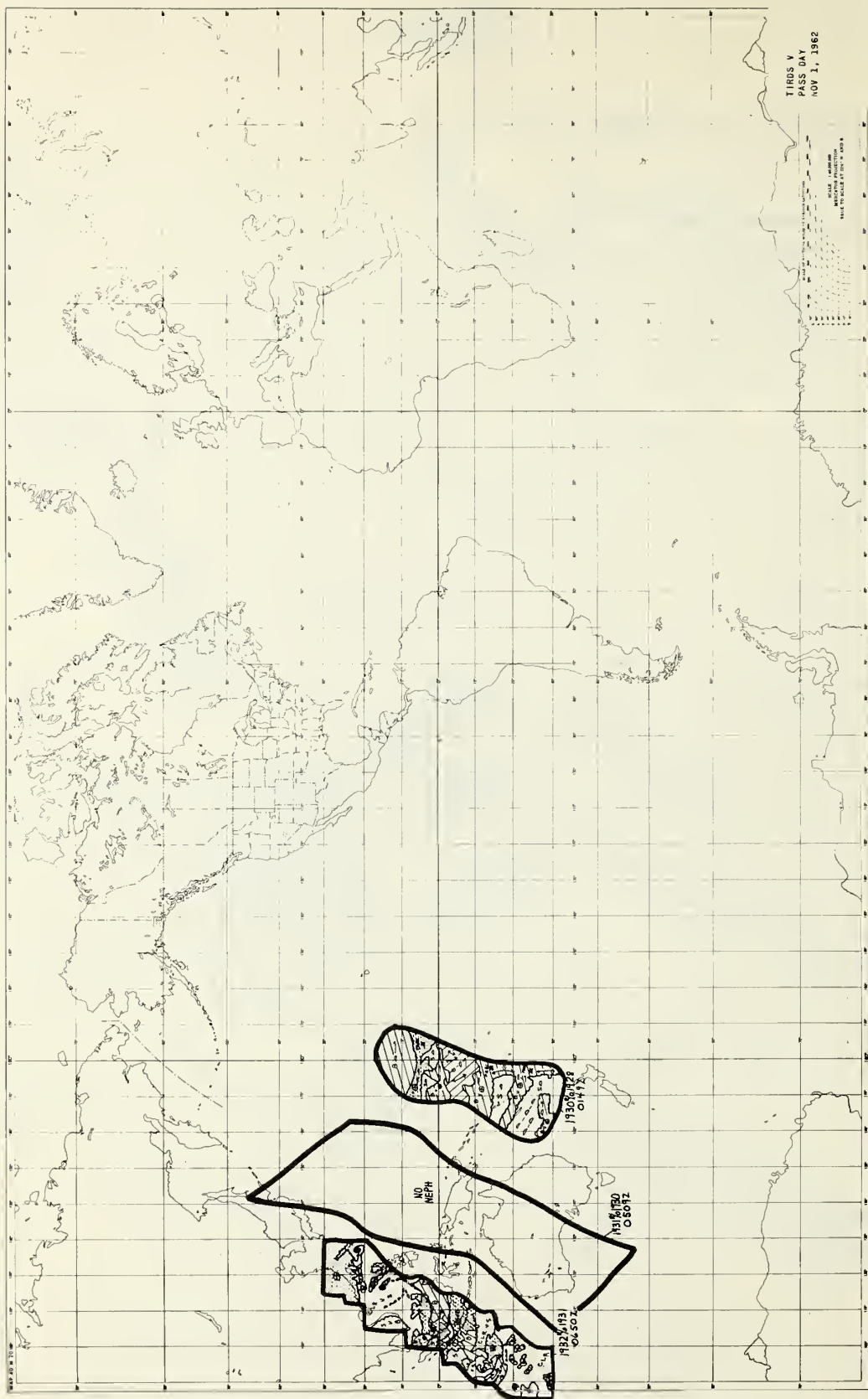
T V  
PASS DAY  
OCT 27-28, 1962

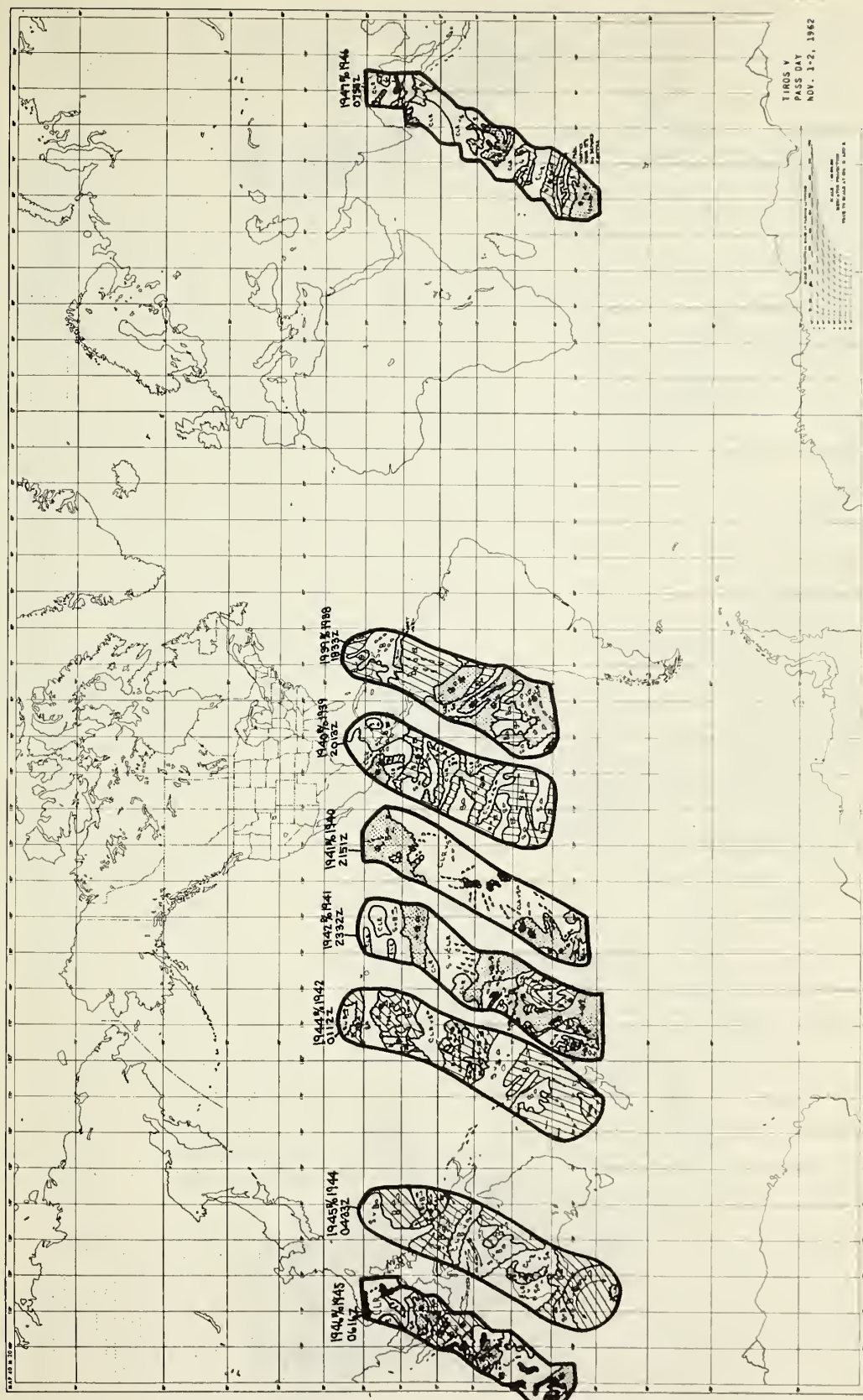




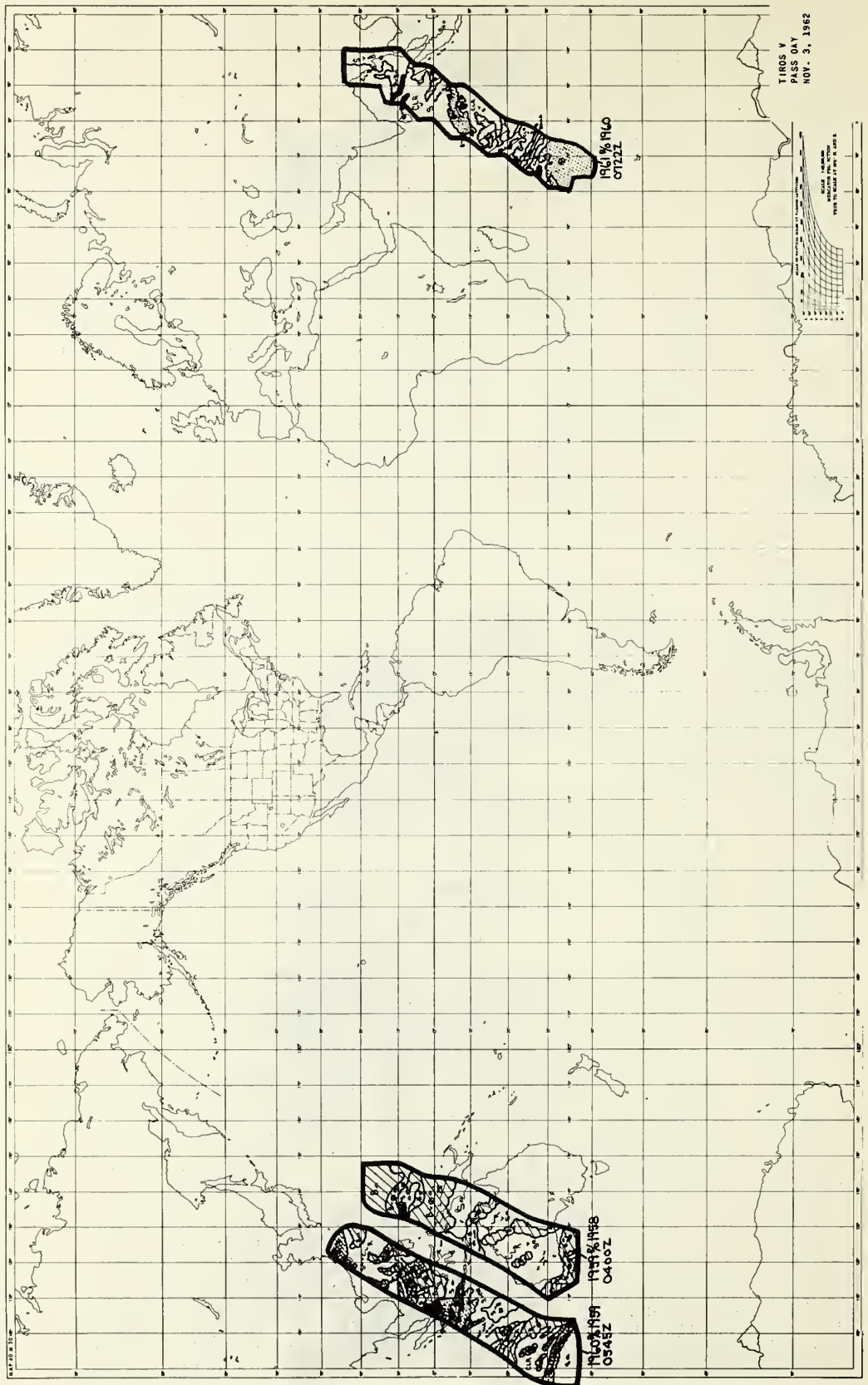


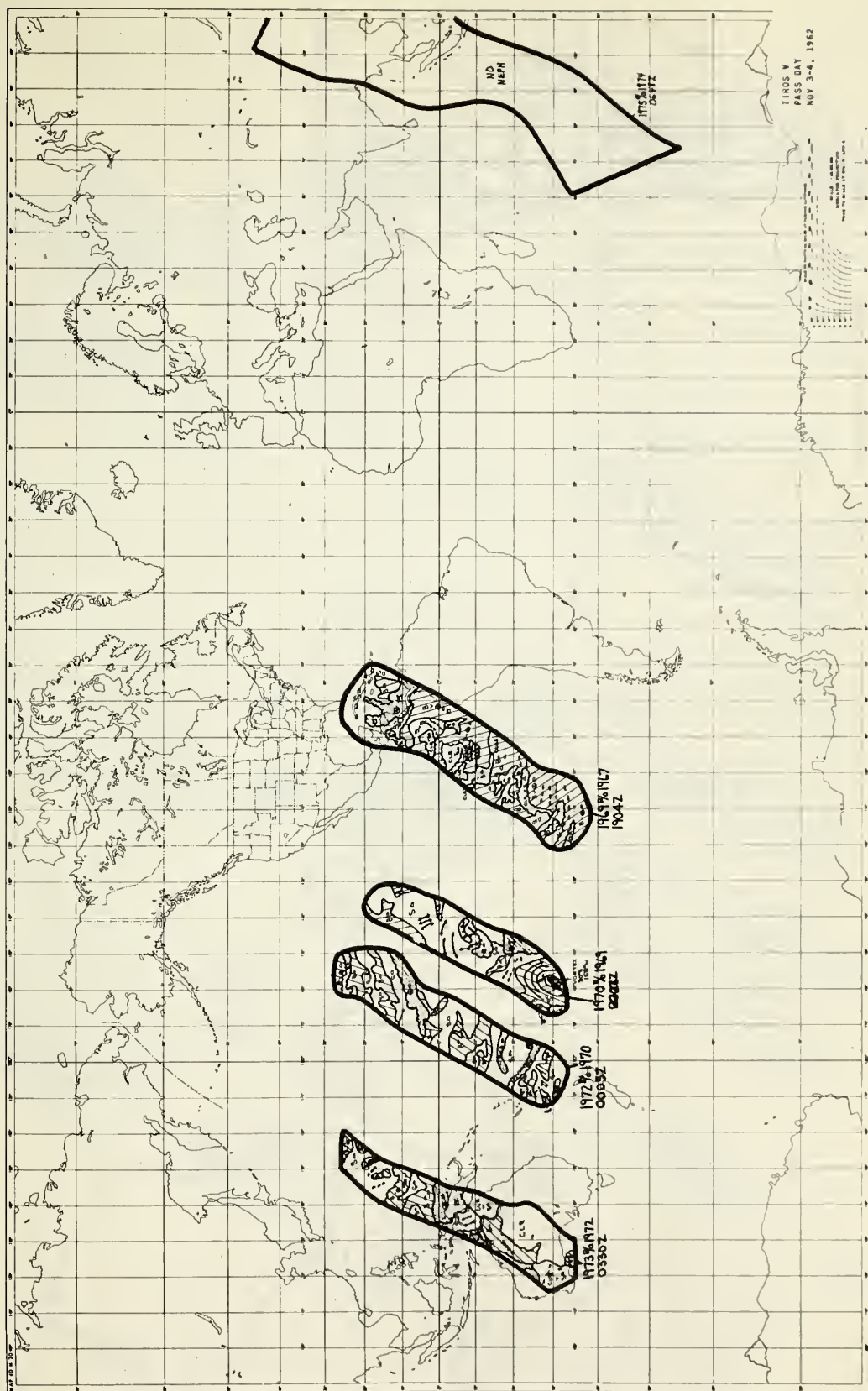




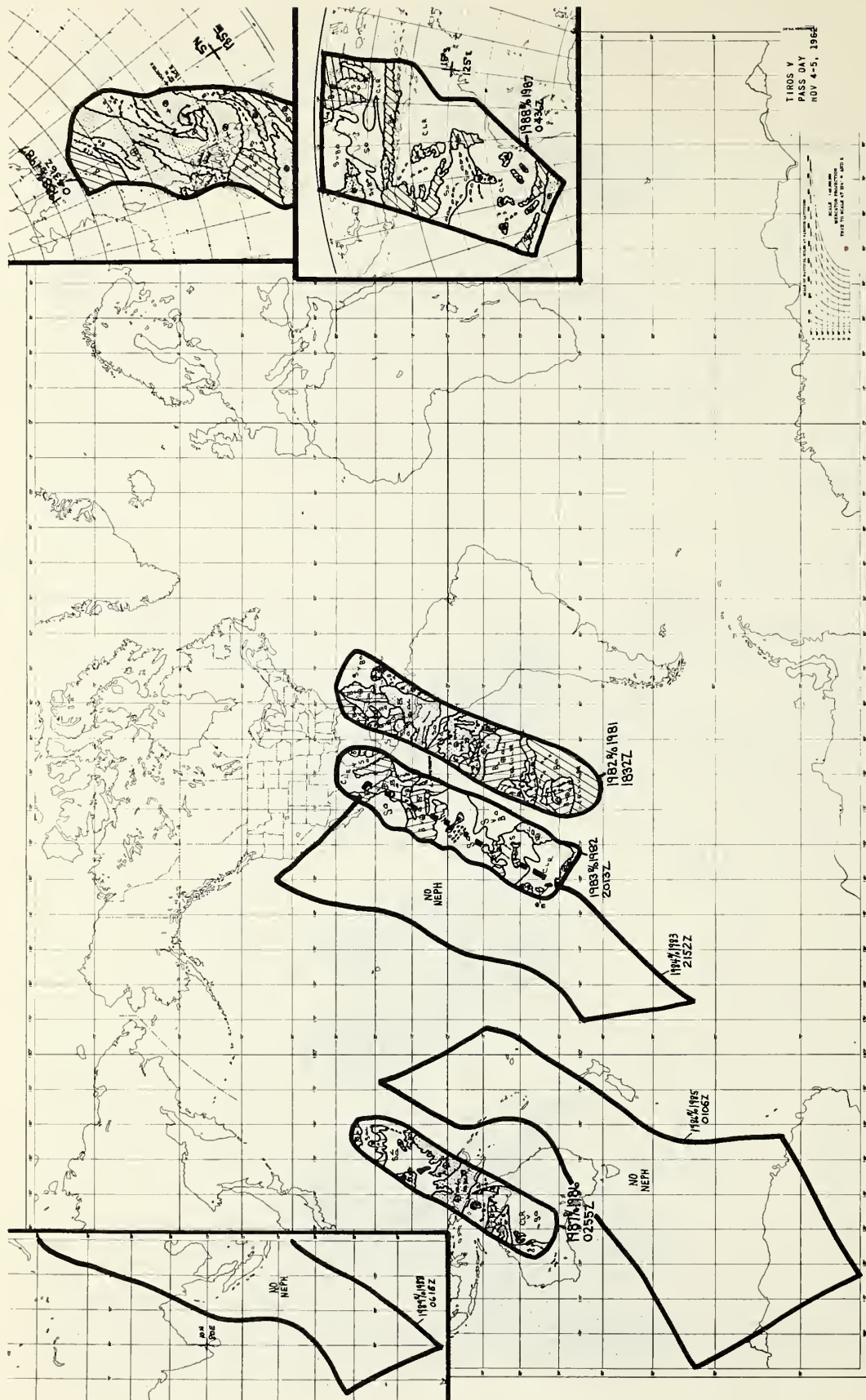






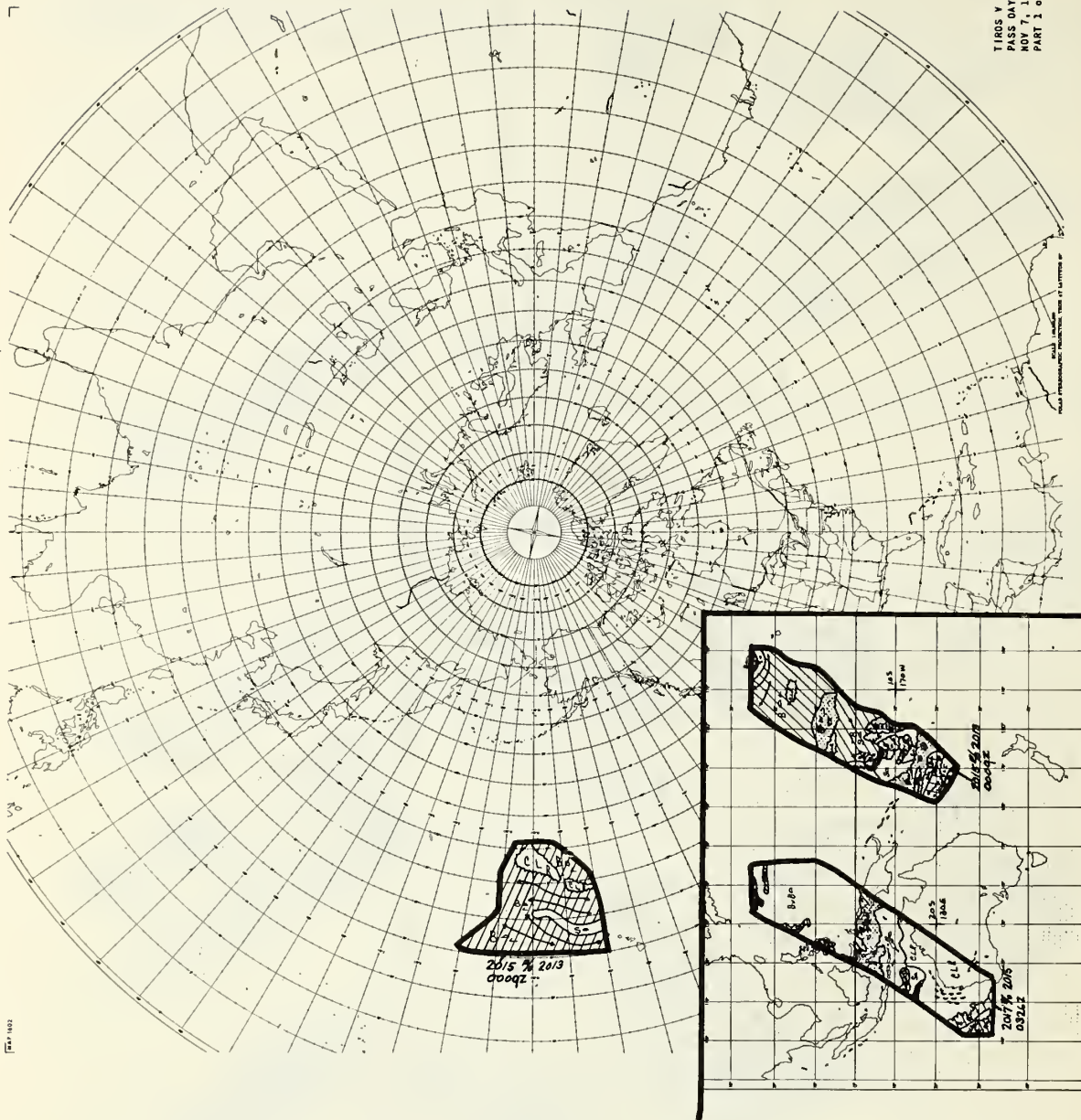




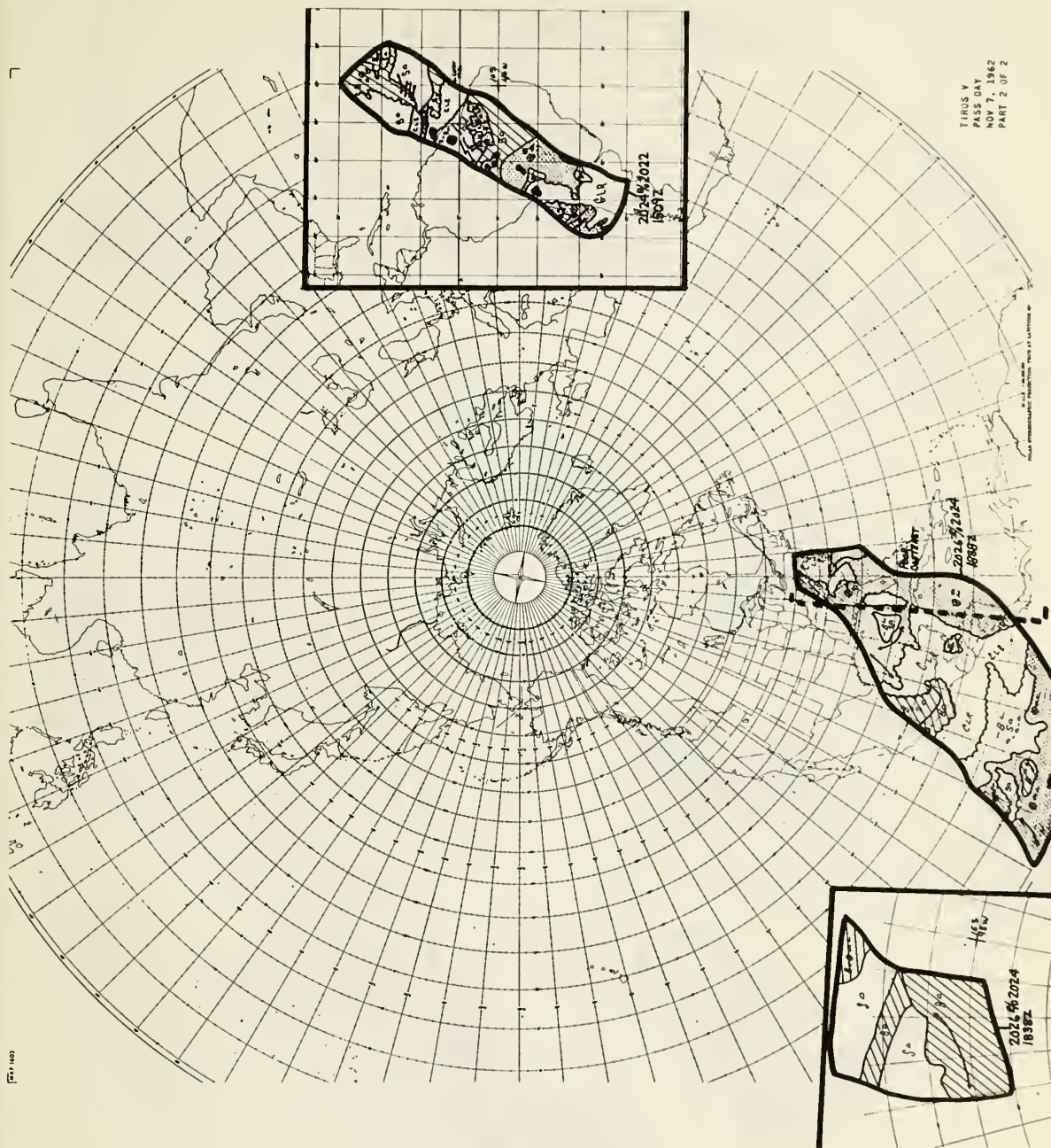








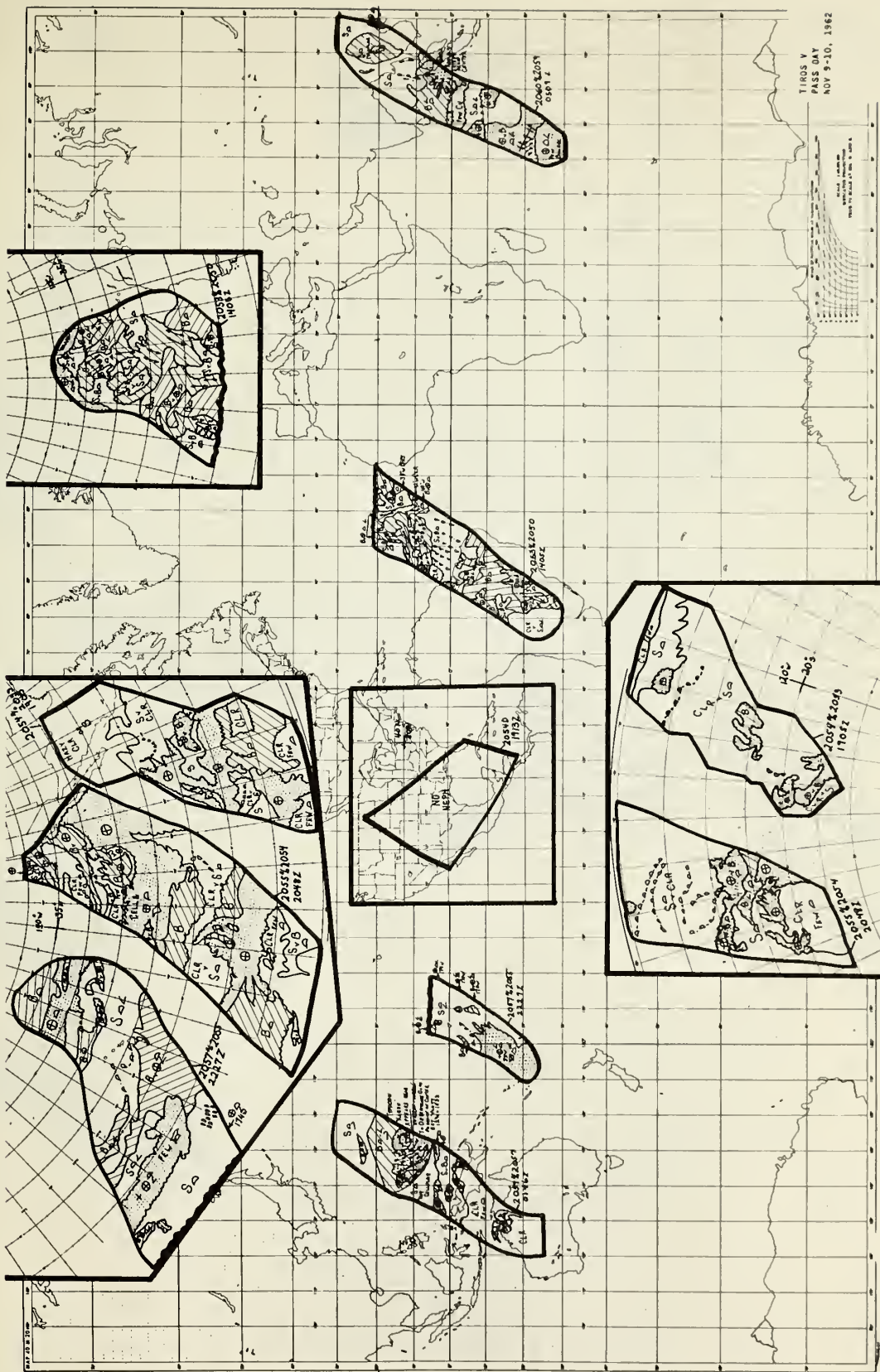
TIRDS V  
PASS DAY  
NOV 17, 1962  
PART 1 OF 2



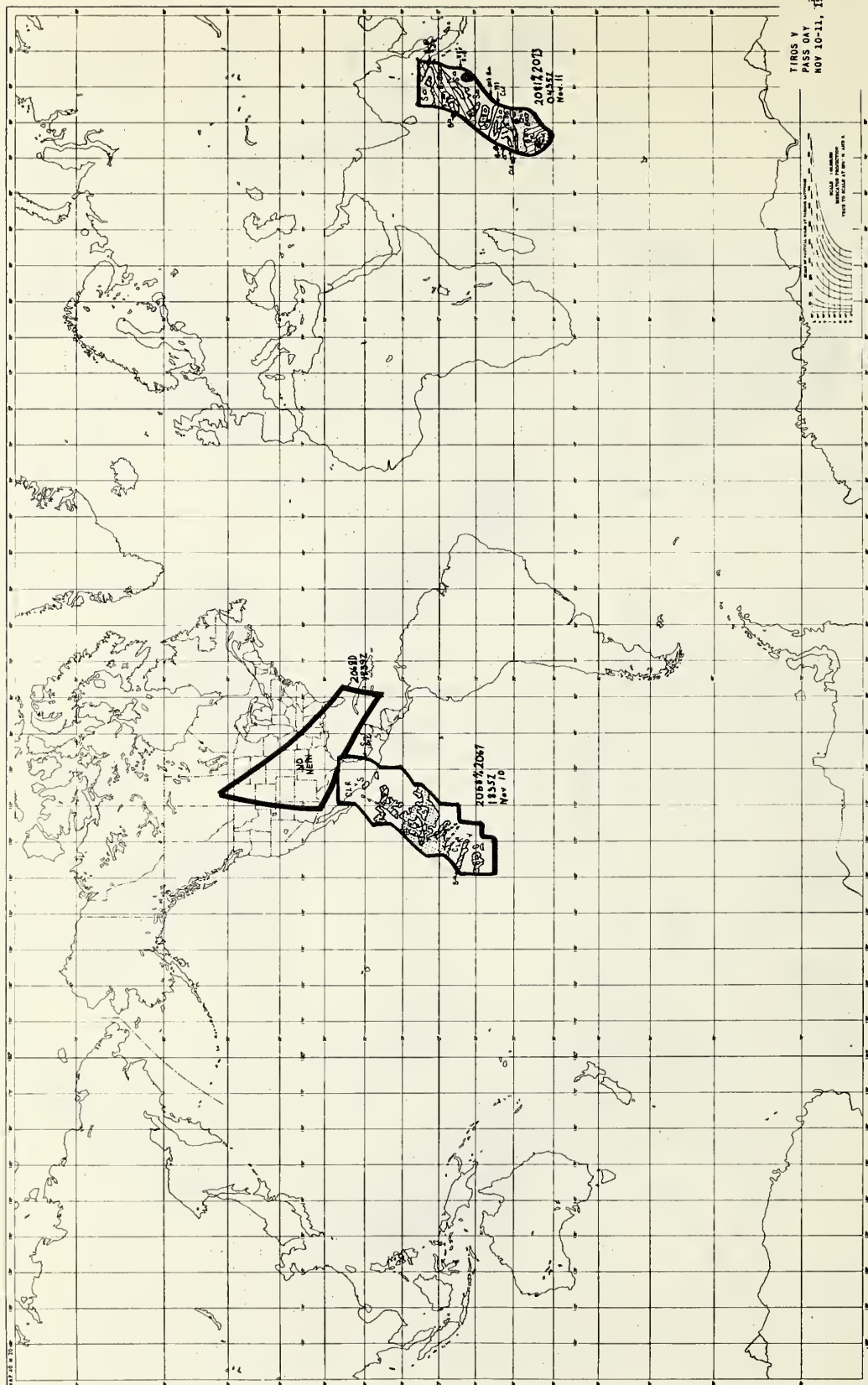
TIDUS V  
PASS DAY  
NOV 1, 1962  
PART 2 OF 2

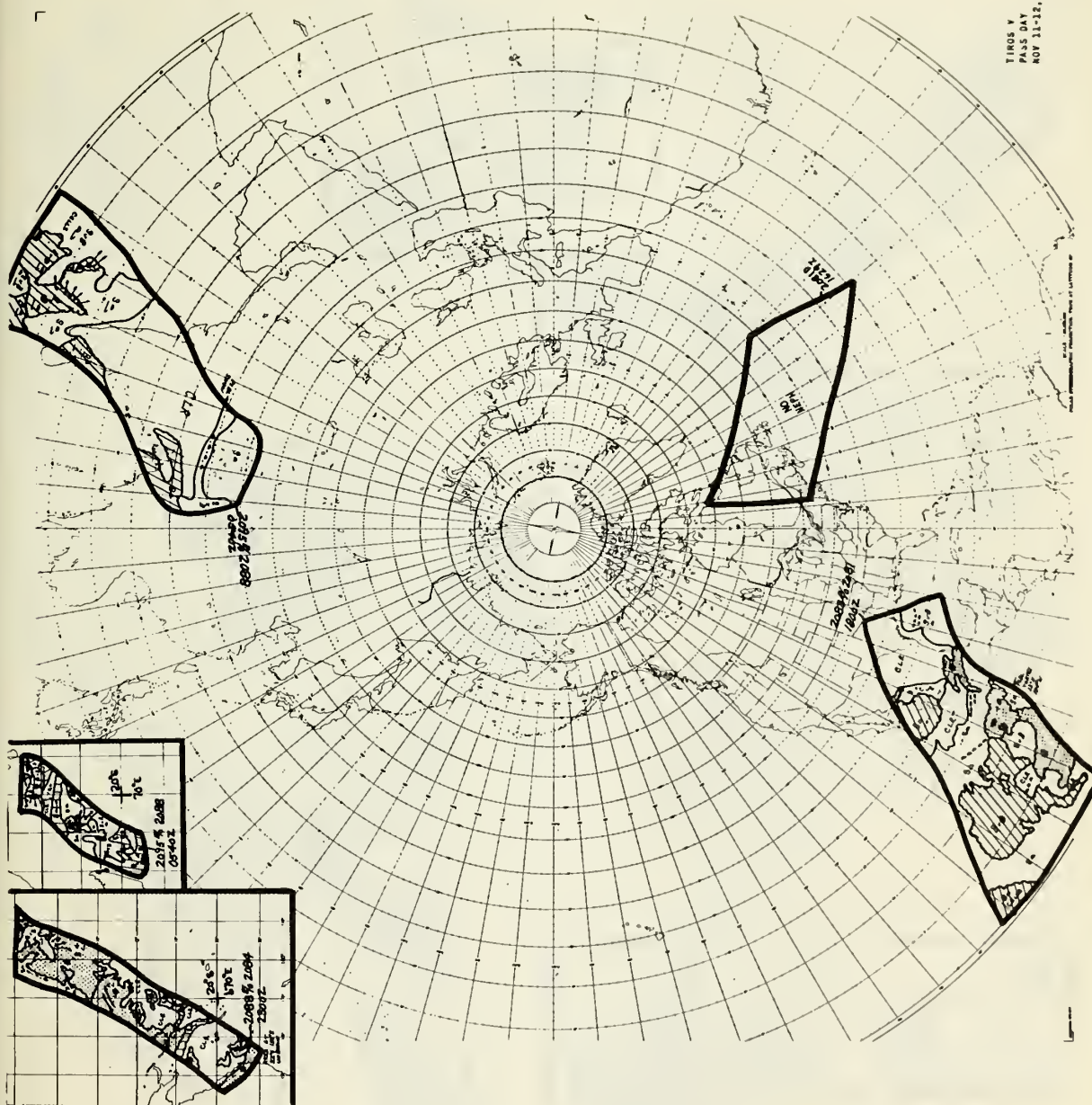






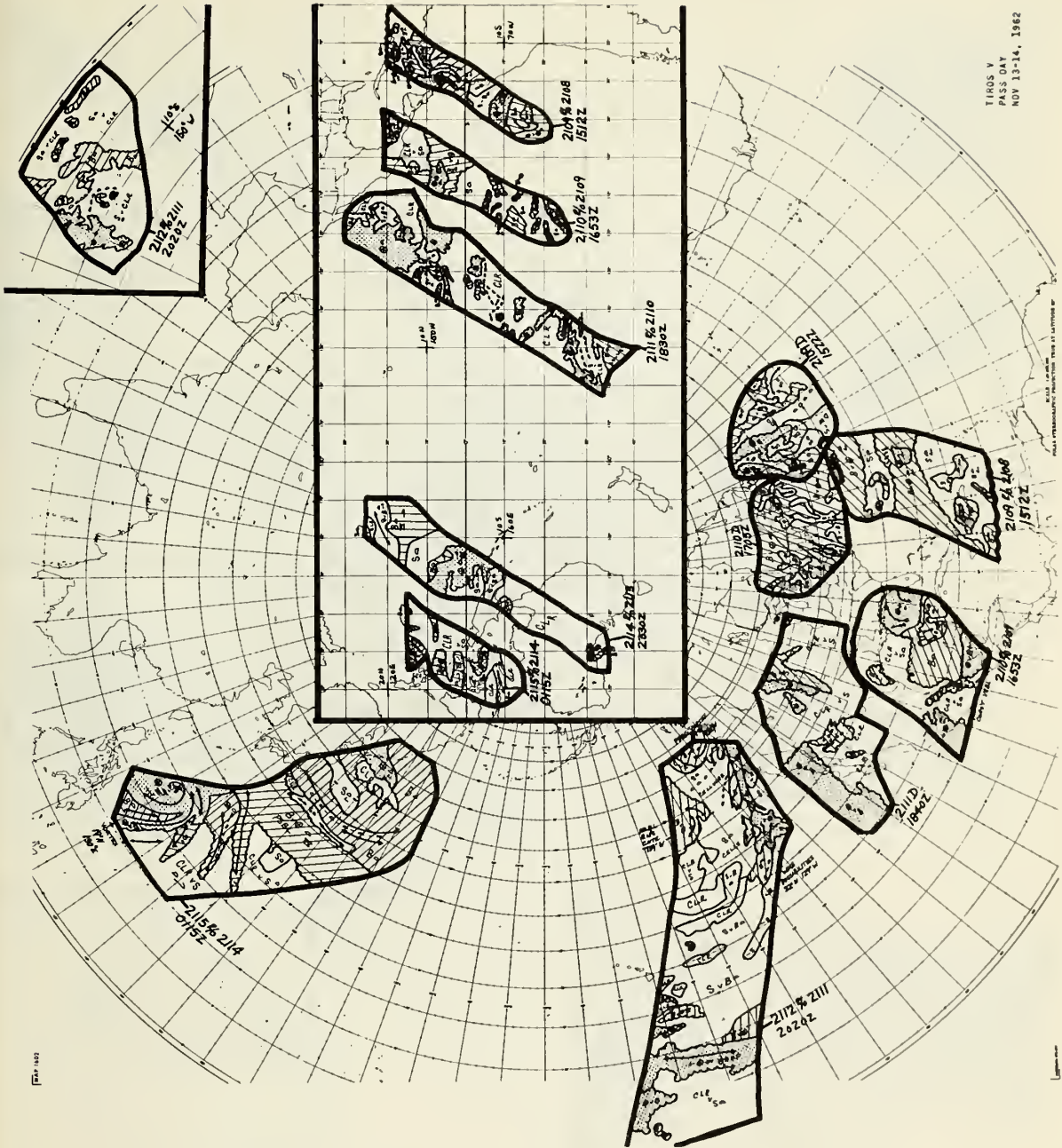








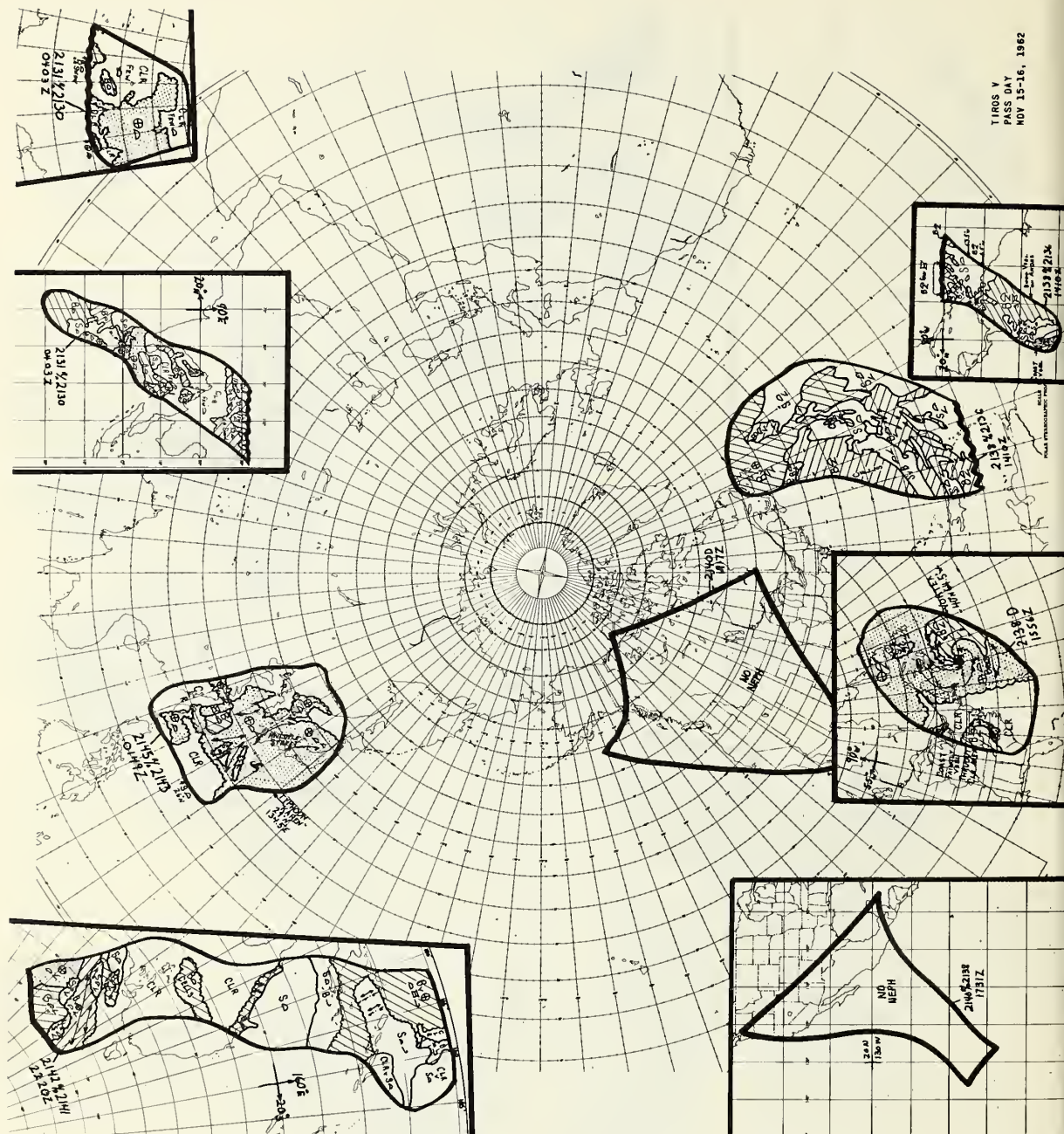


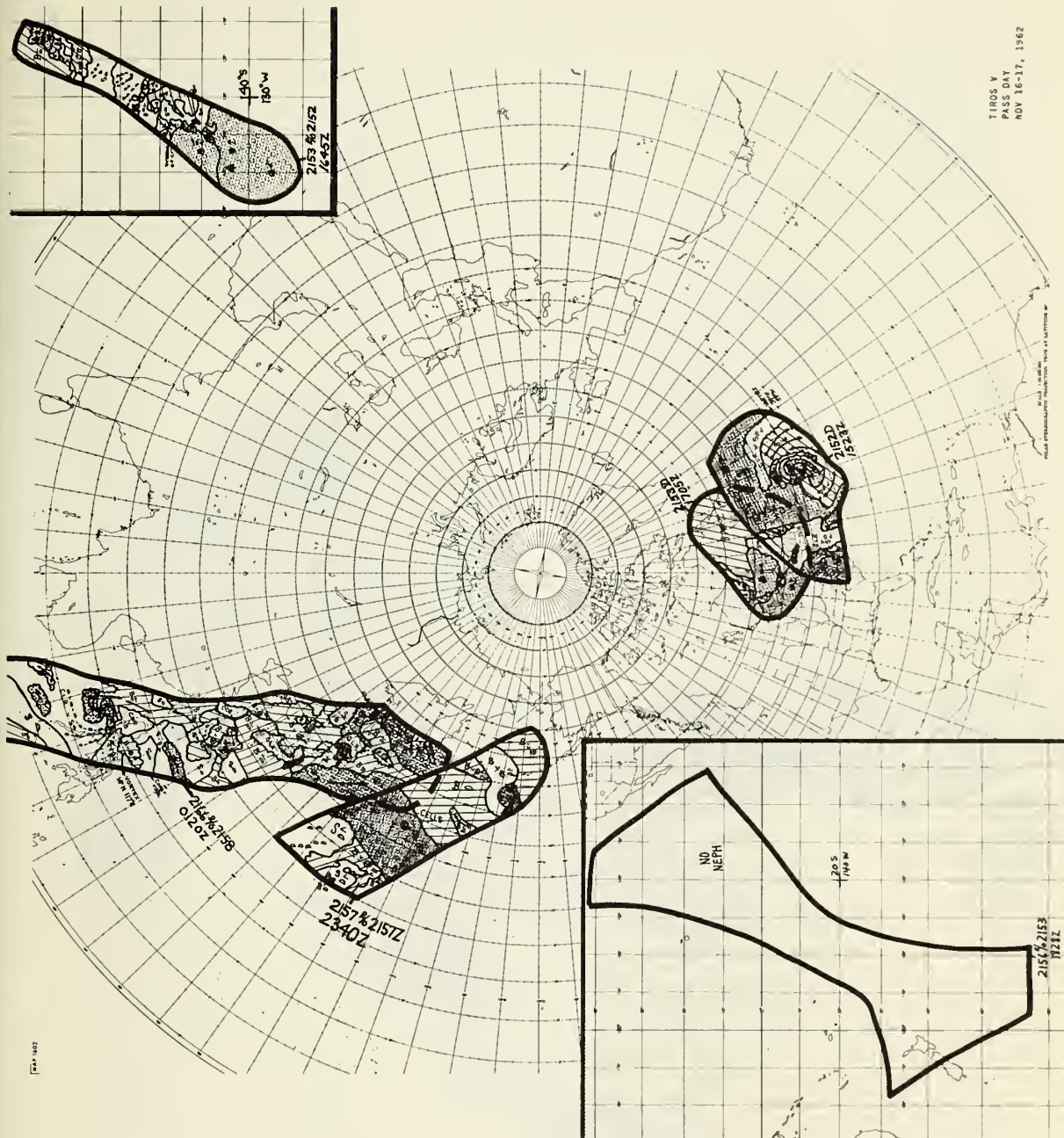


T1005 V  
PASS DAY  
NOV 13-14, 1962



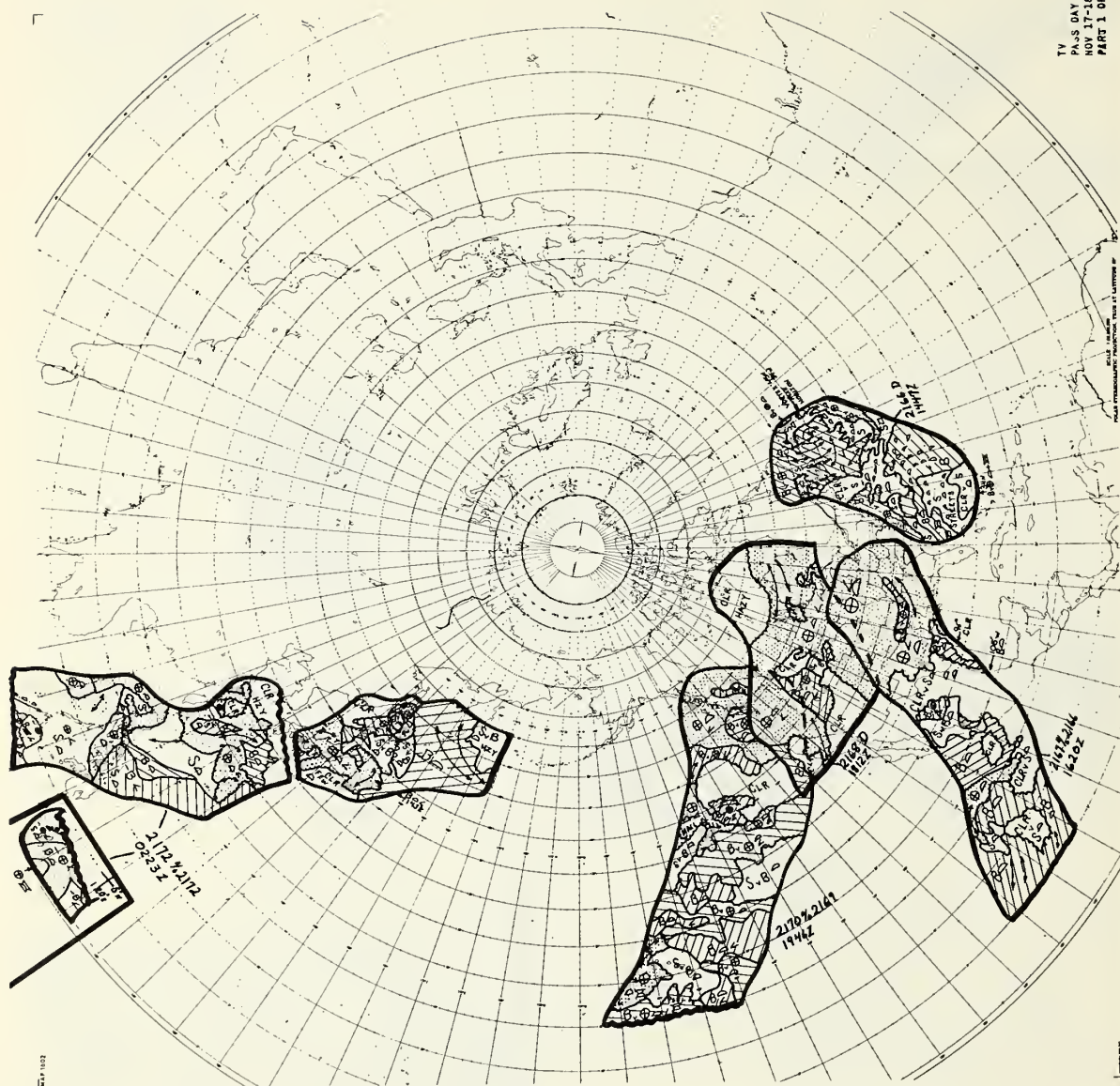
TIRDS V  
PASS DAY  
MAY 15-16, 1962



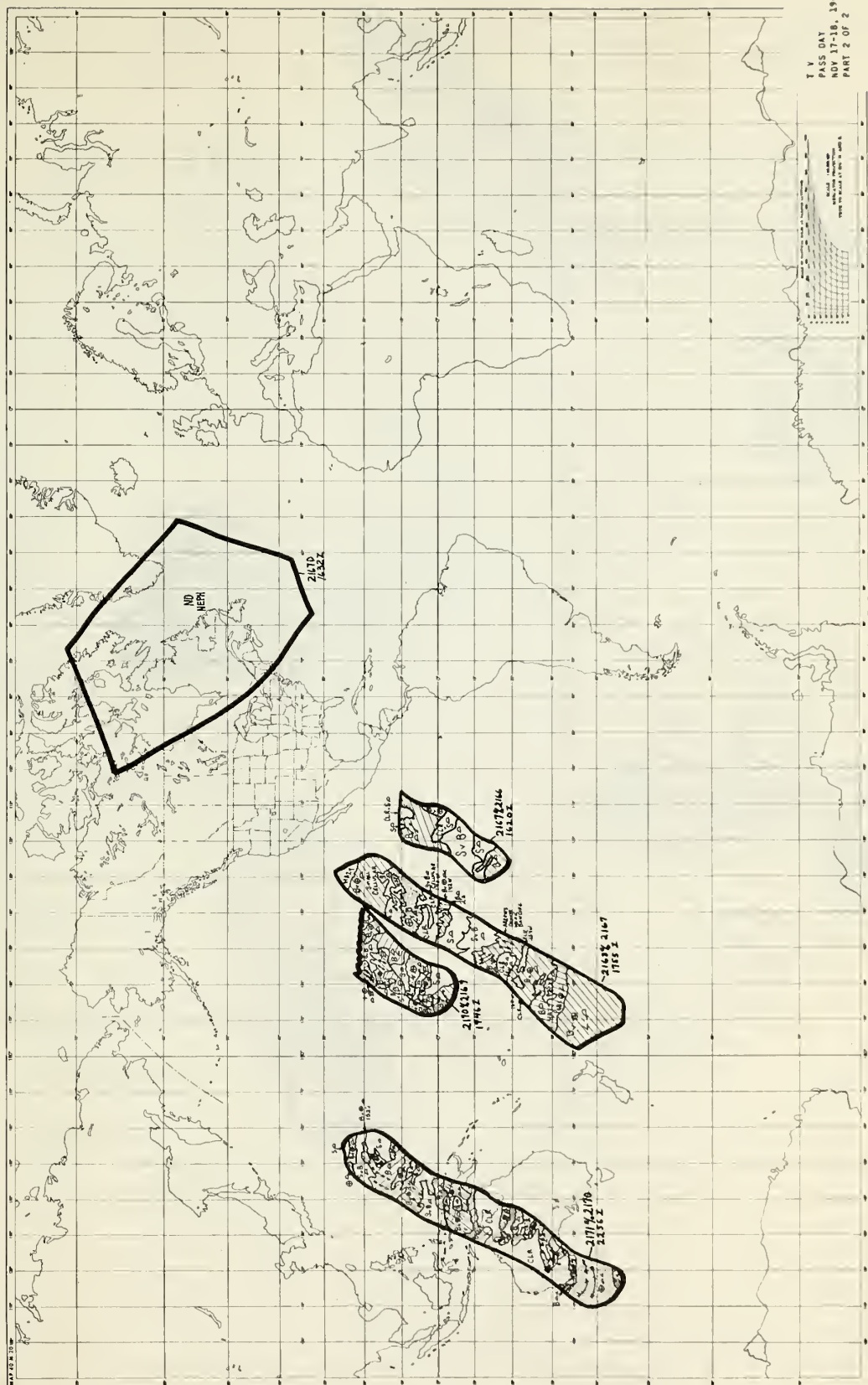


TIROS V  
PASS DAY  
NOV 16-17, 1962

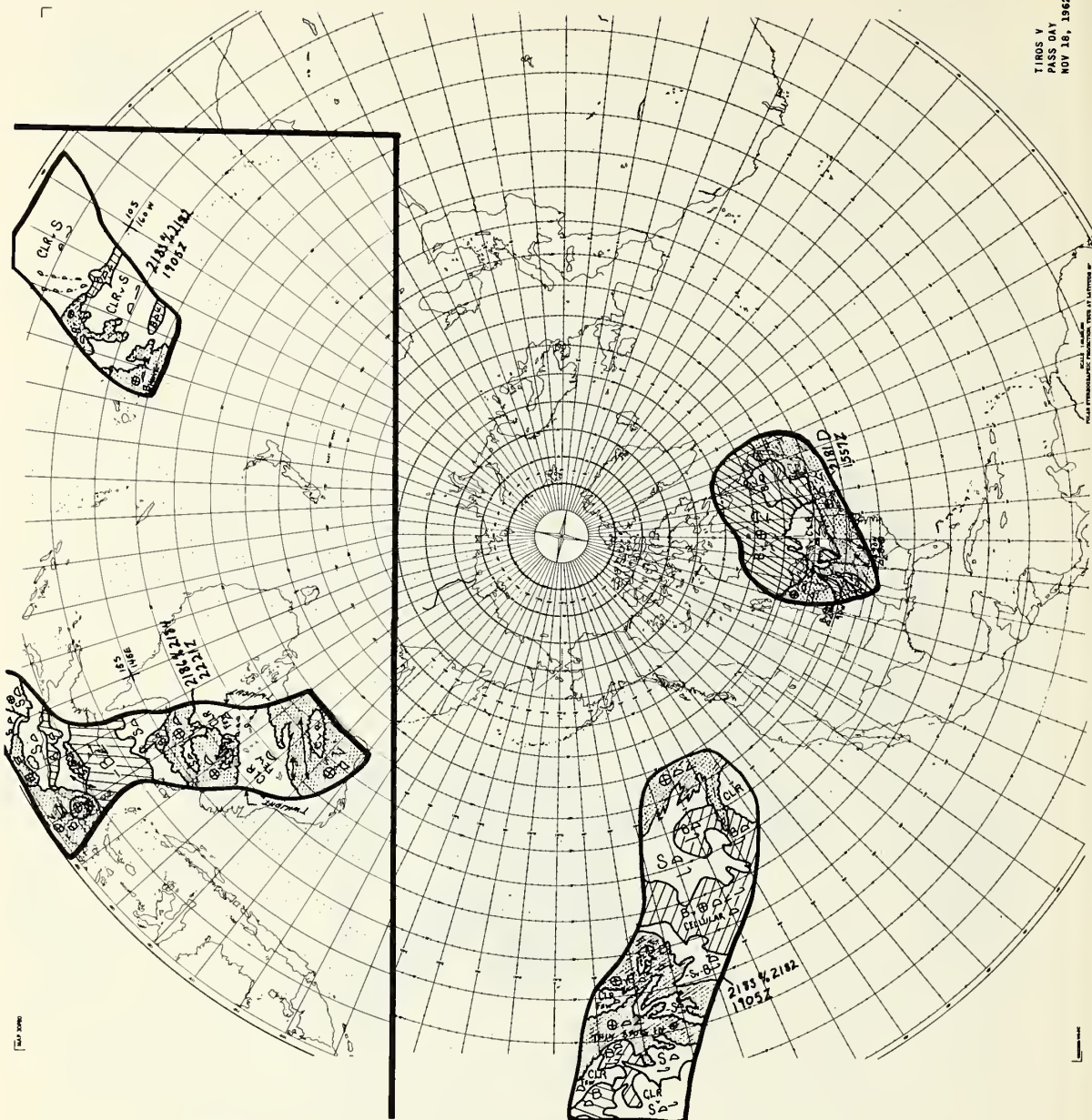




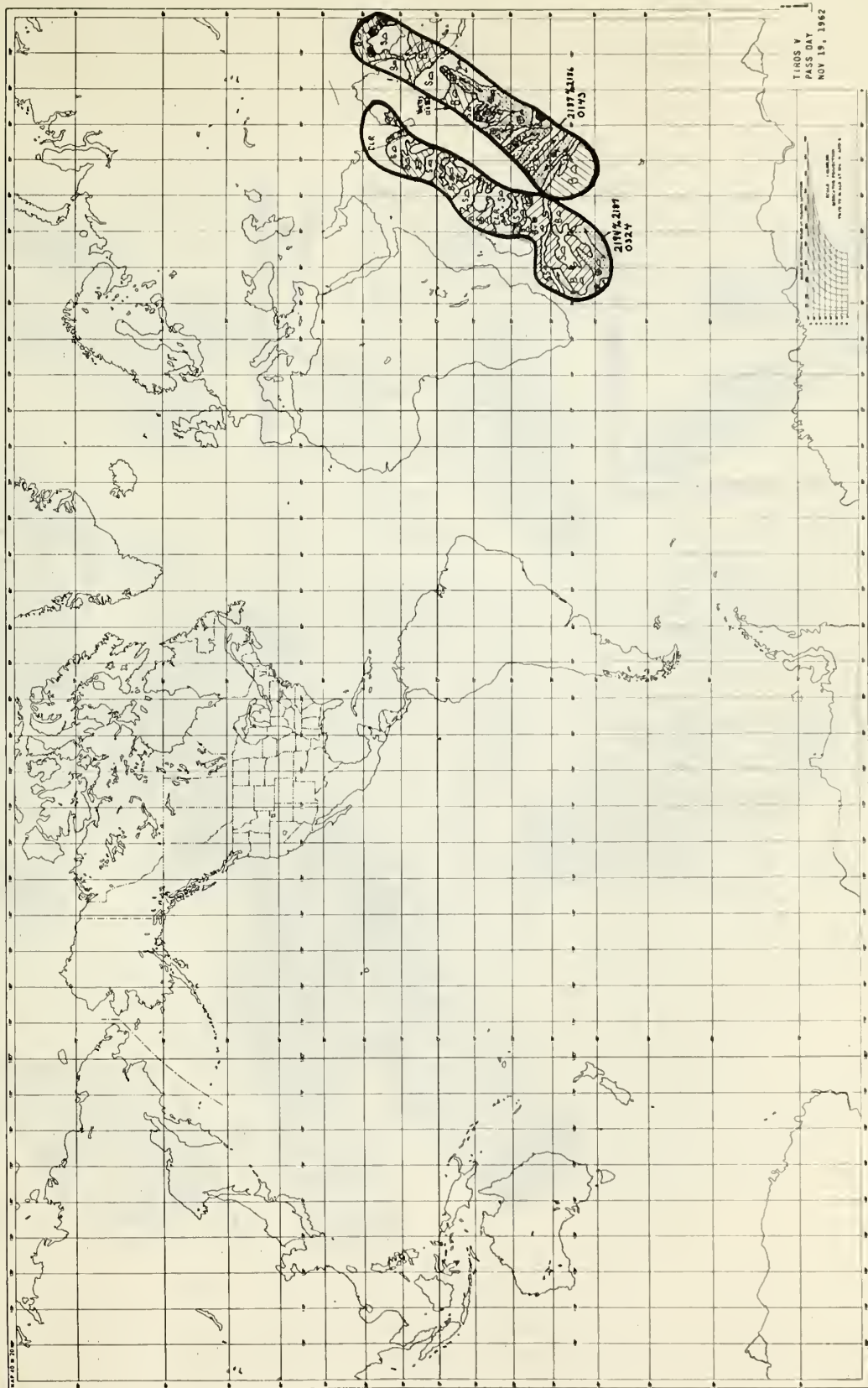
TV  
PAUS DAY  
NOV 17-18, 1982  
PART 1 OF 2





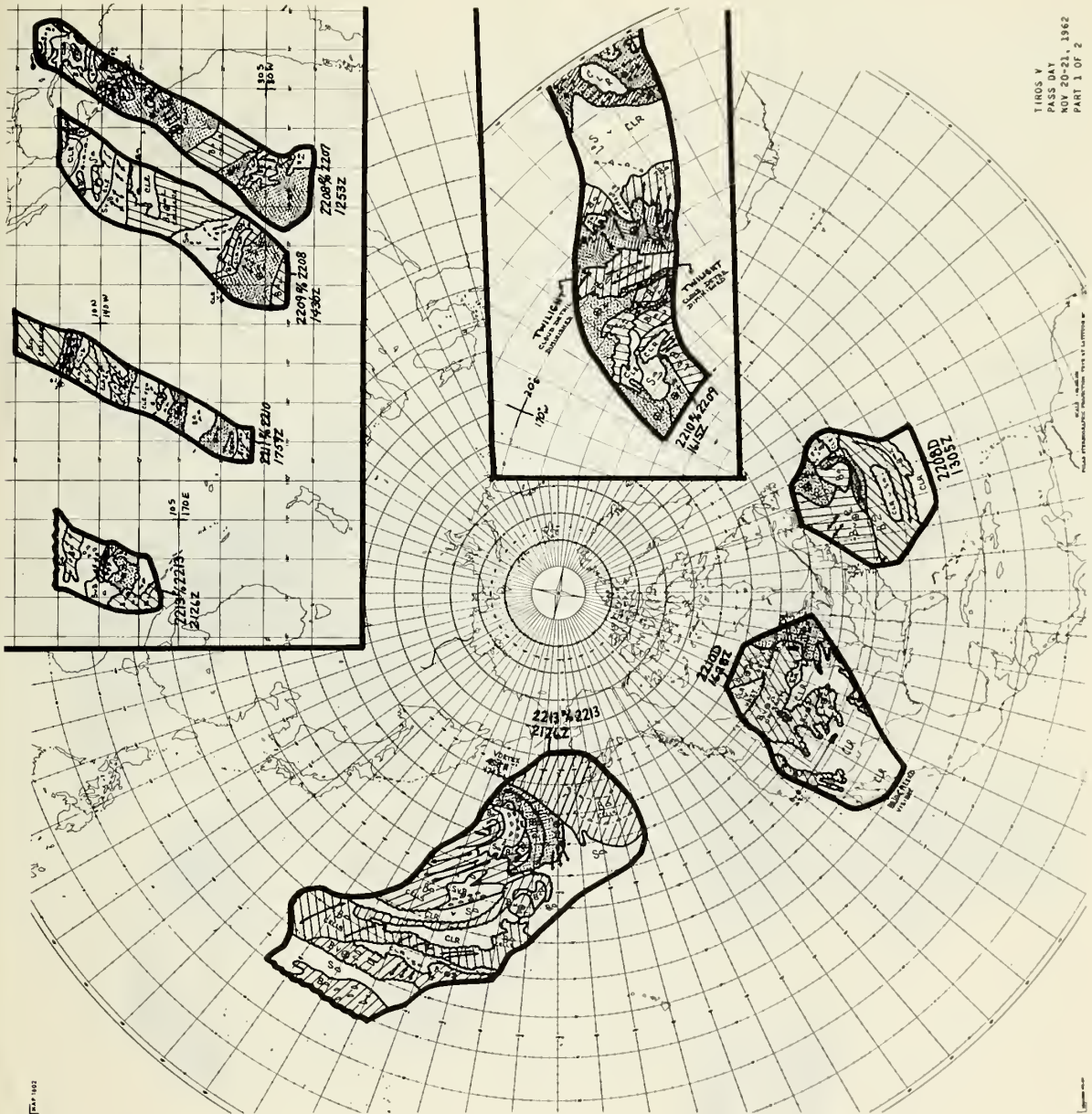


TIRDS V  
PASS DAY  
NOV 18, 1962





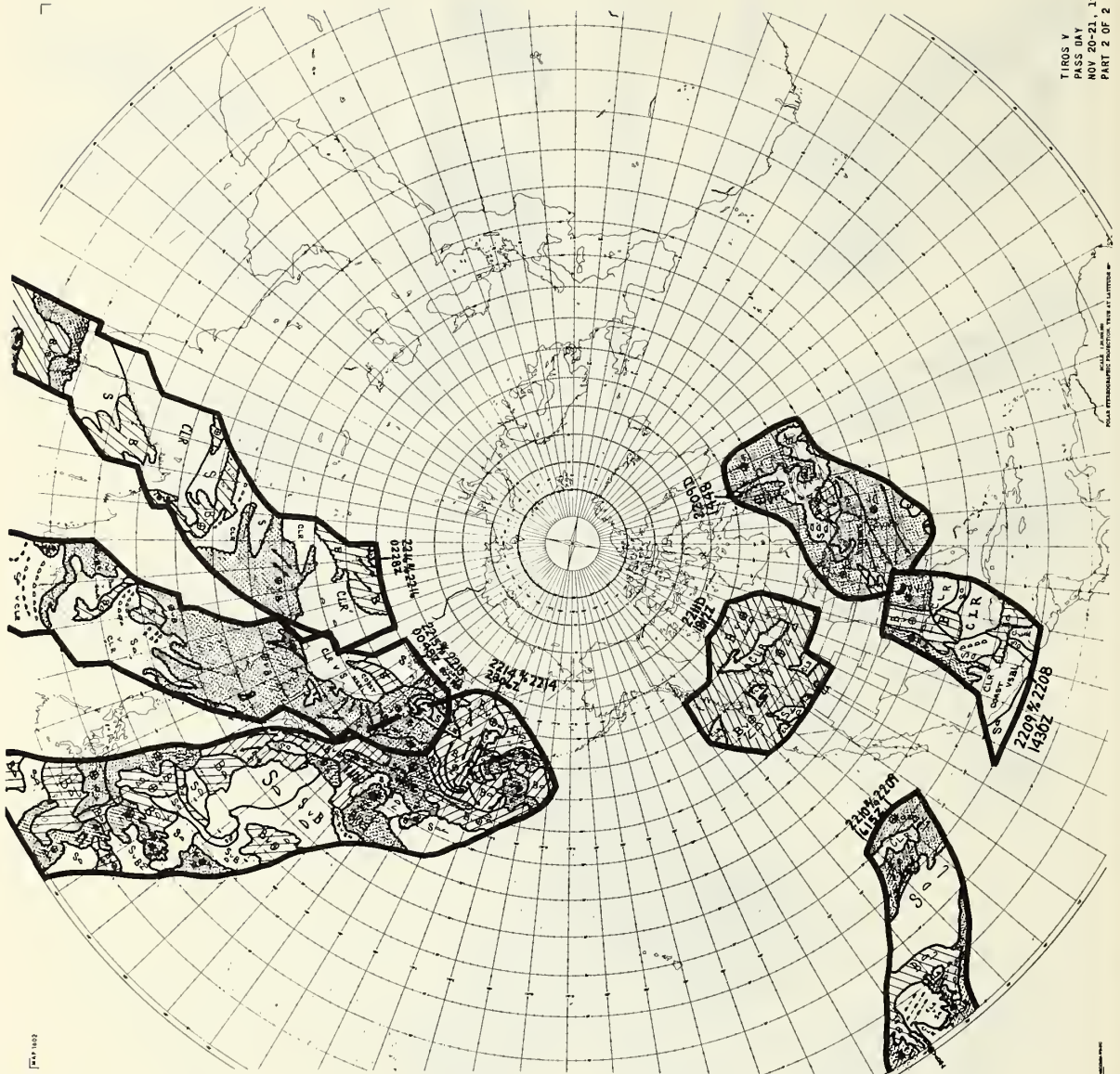


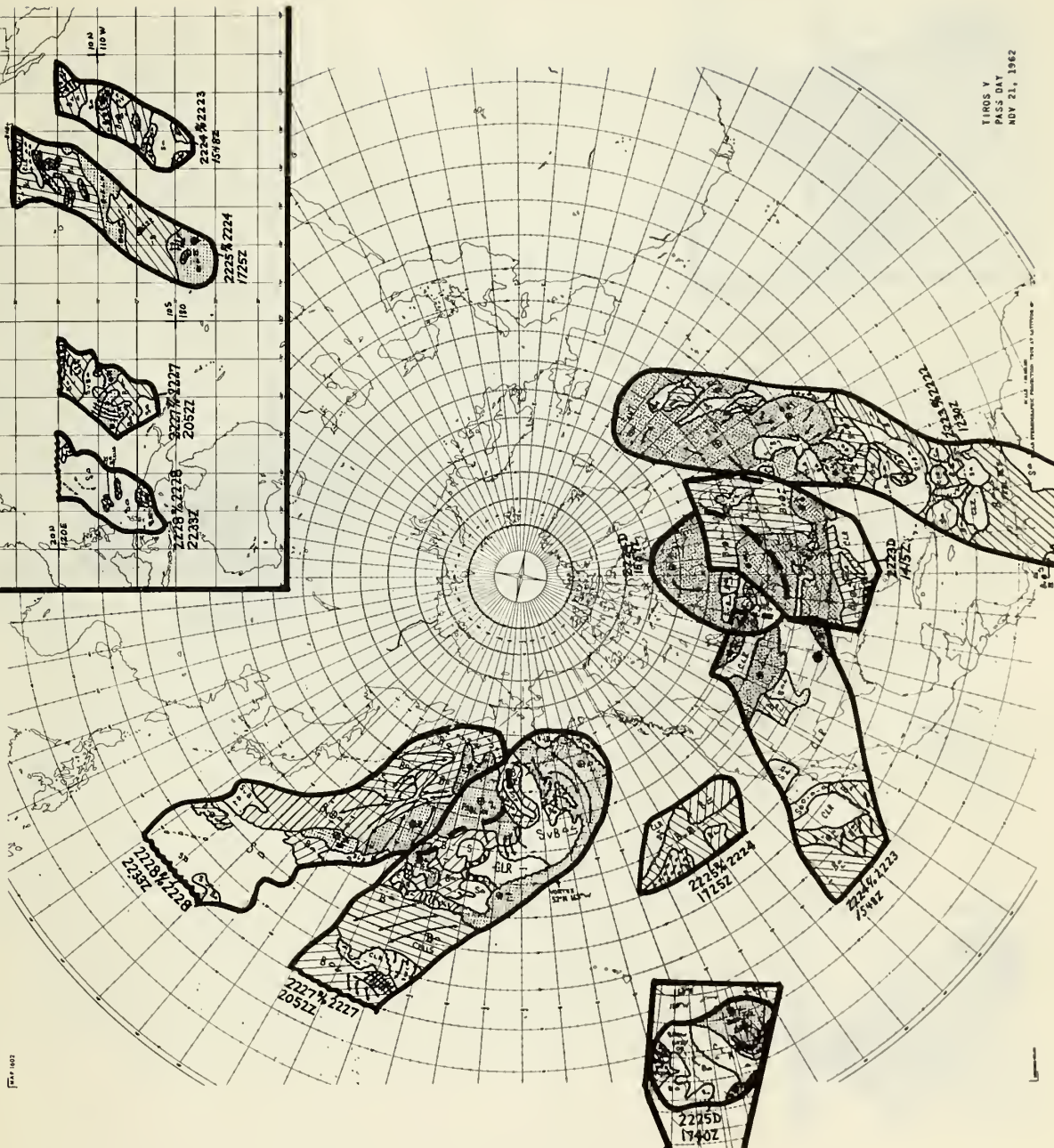
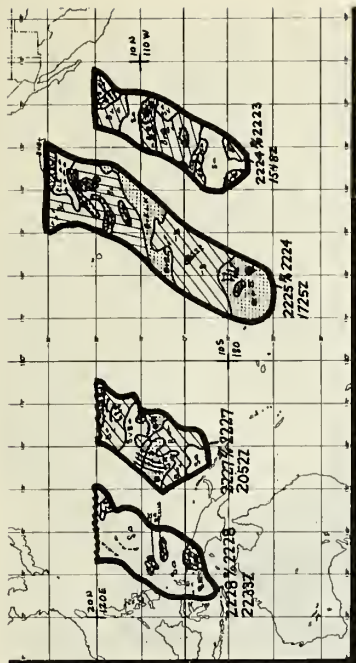


TIRDS V  
PASS DAY  
NOV 20-21, 1962  
PART 1 OF 2



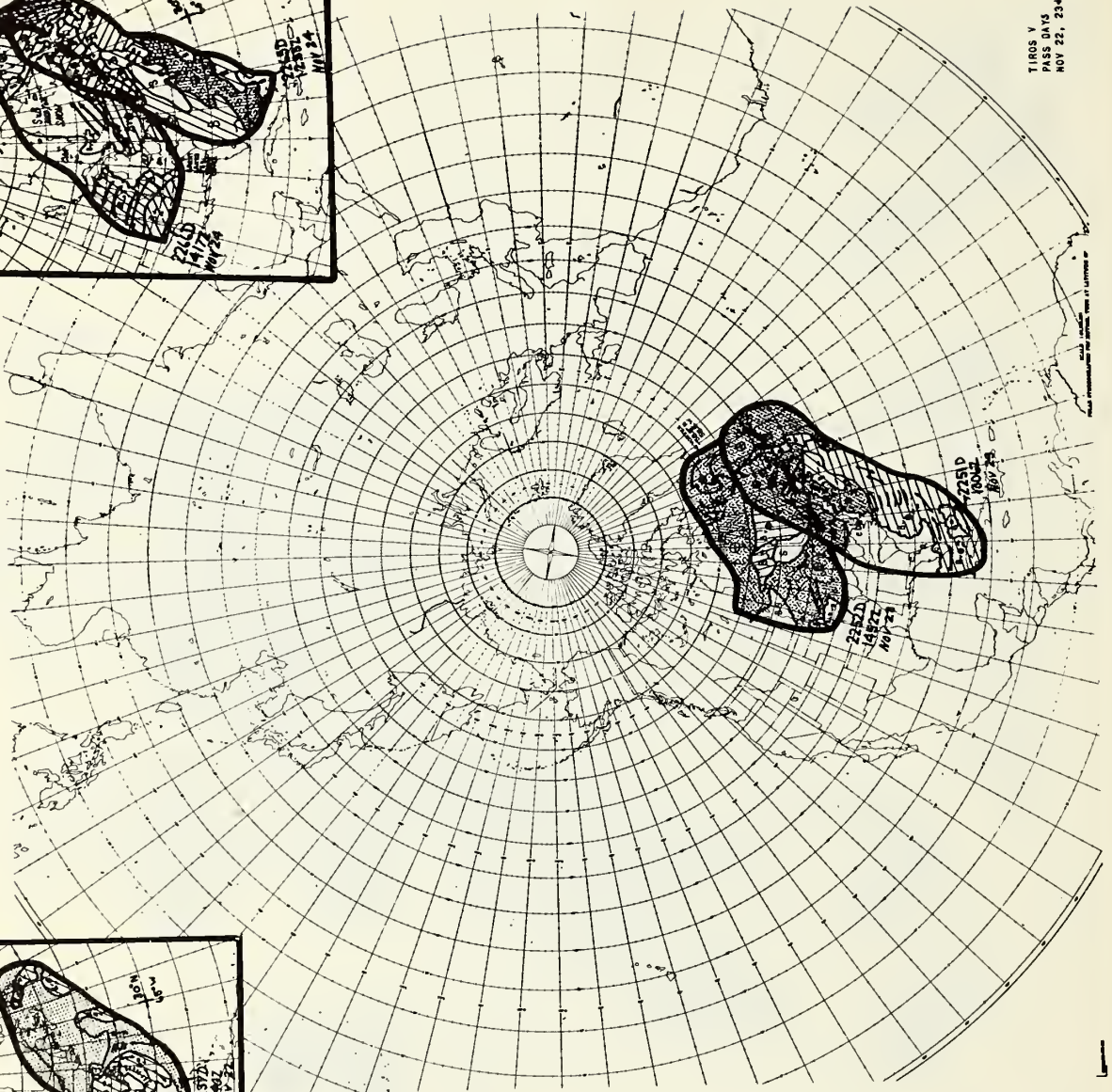
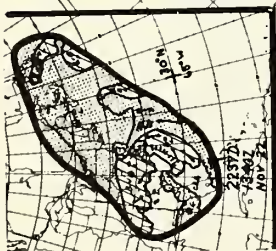
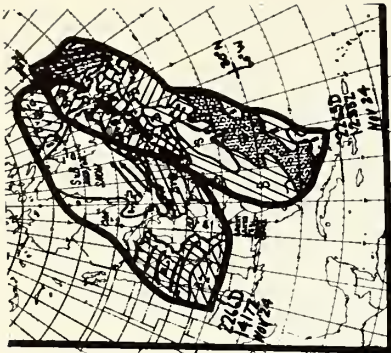
LOCAL PHOTOGRAPHY PRODUCTION, NEWS AT LANTANA 5



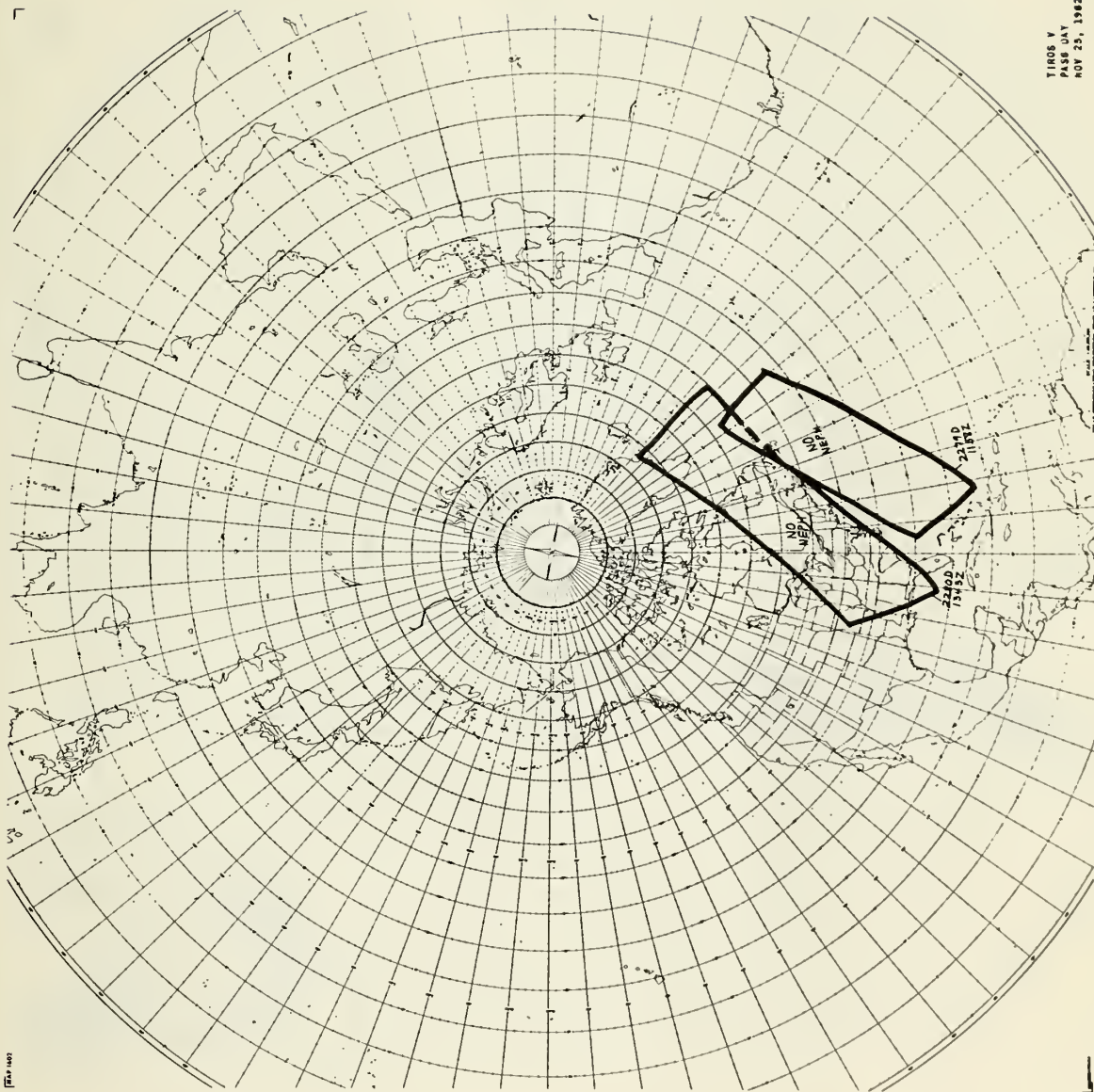


TIROS V  
PASS DAY  
NOV 21, 1962



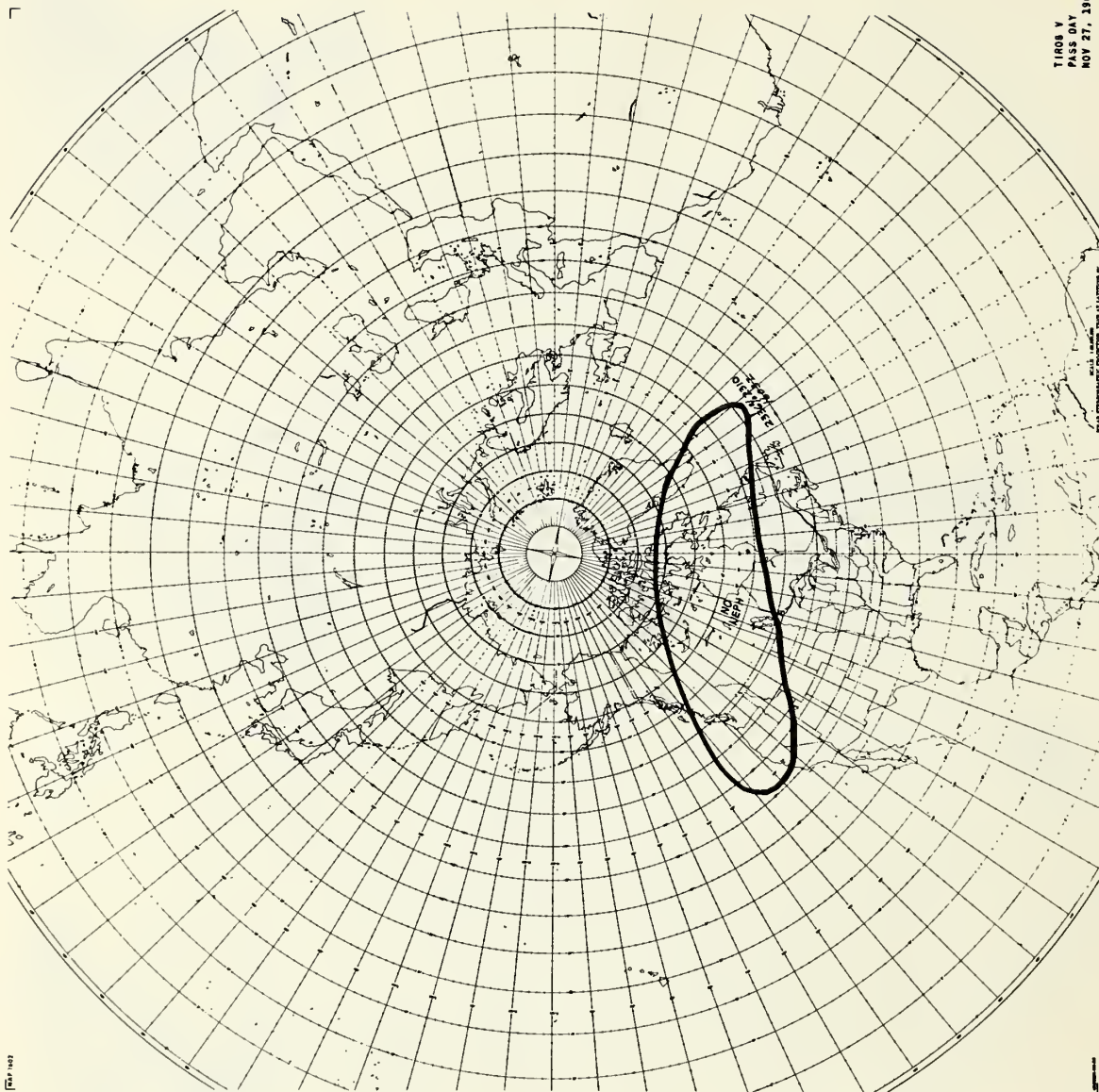


T1905 V  
PASS DAYS  
NOV 22, 2342, 1982

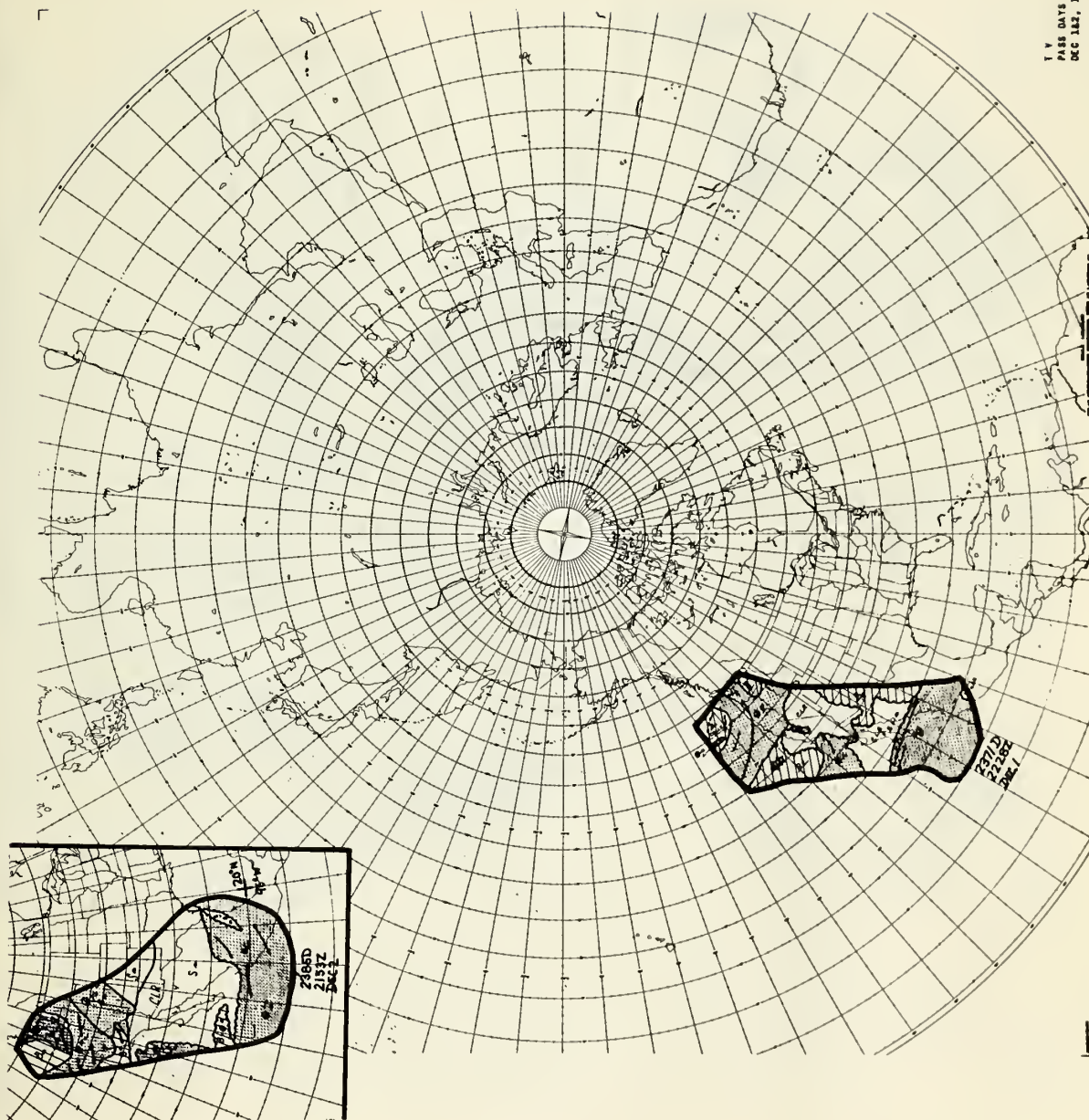


TIROS V  
 PASADENA  
 MAY 25, 1962





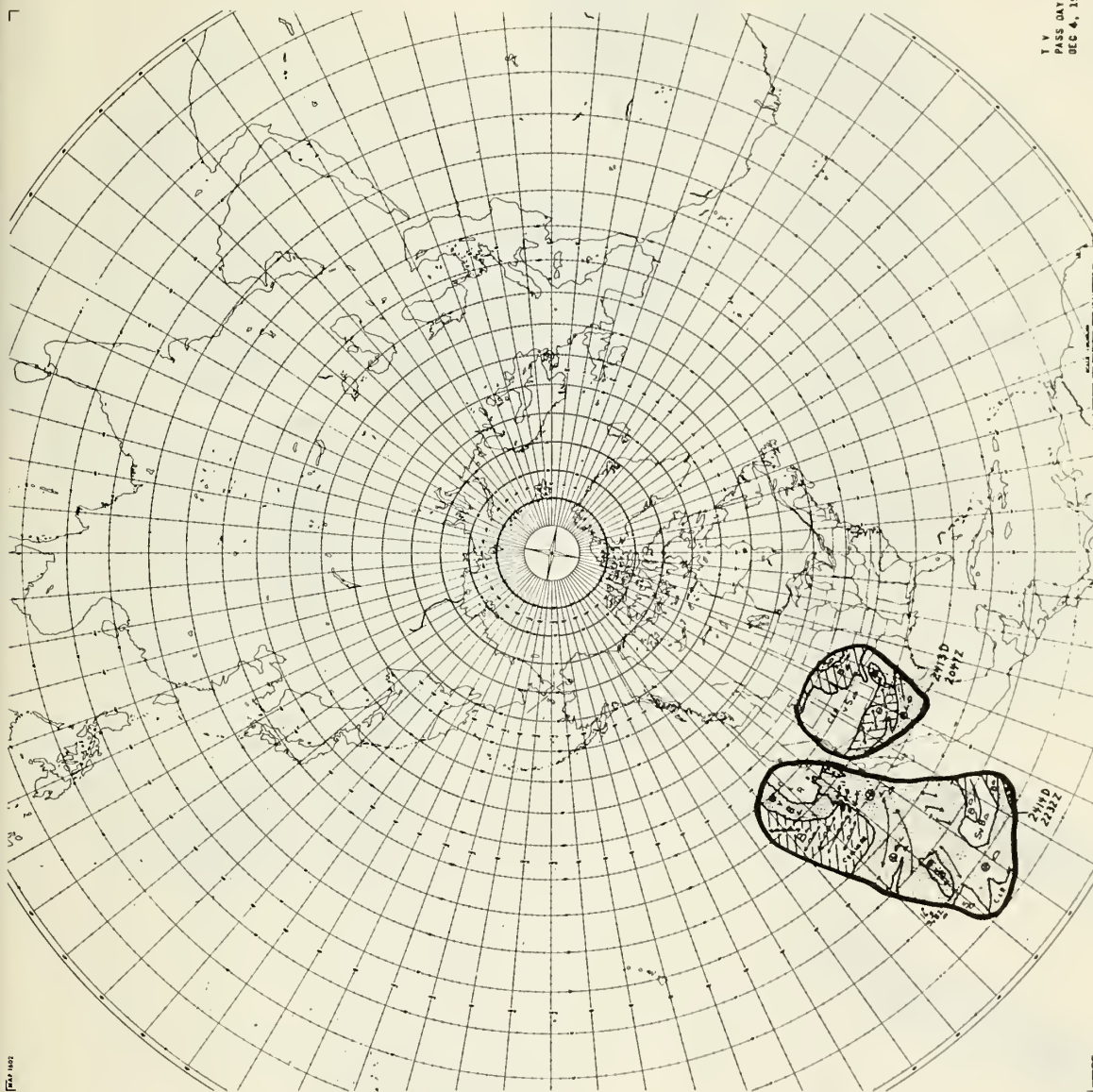
T1808 V  
PASS DAY  
NOV 27, 1962



T V  
PASS OATS  
DEC 182, 1962



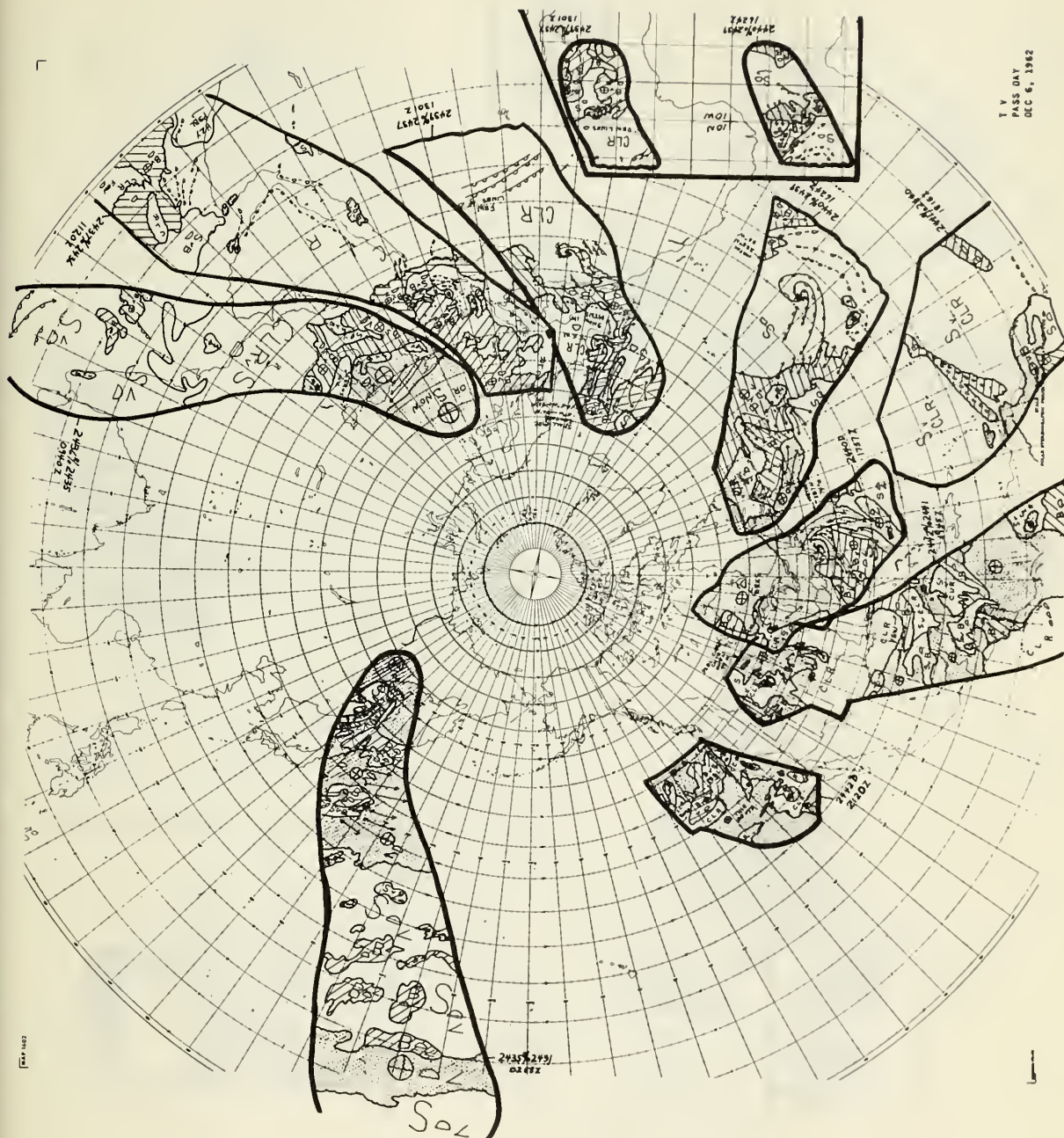




Y. V.  
PASS. DAY  
DEC 4, 1962







T V  
PASS DAY  
DEC 6, 1962





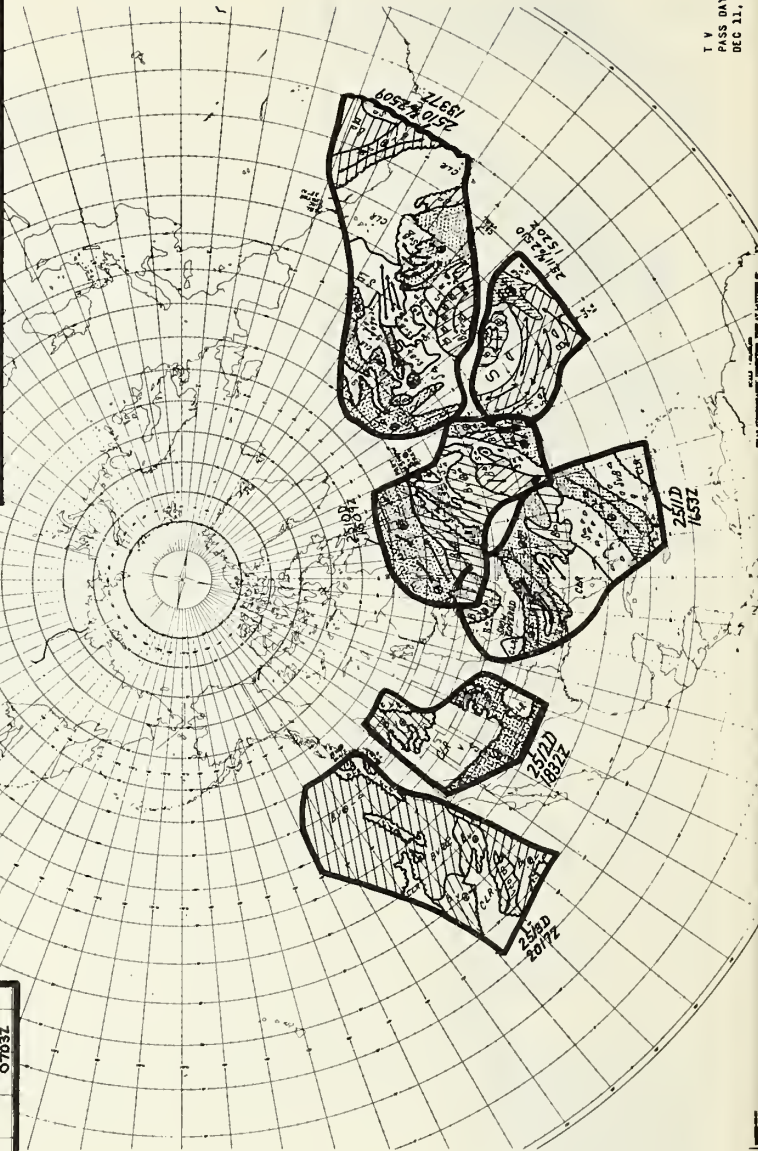
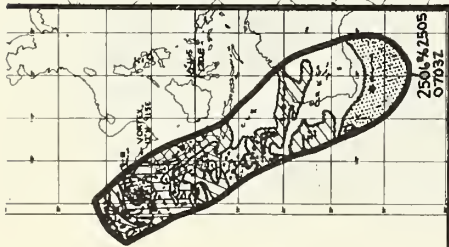
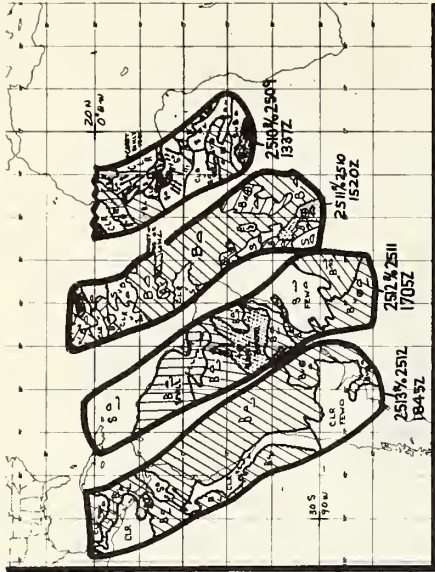
[illegible]

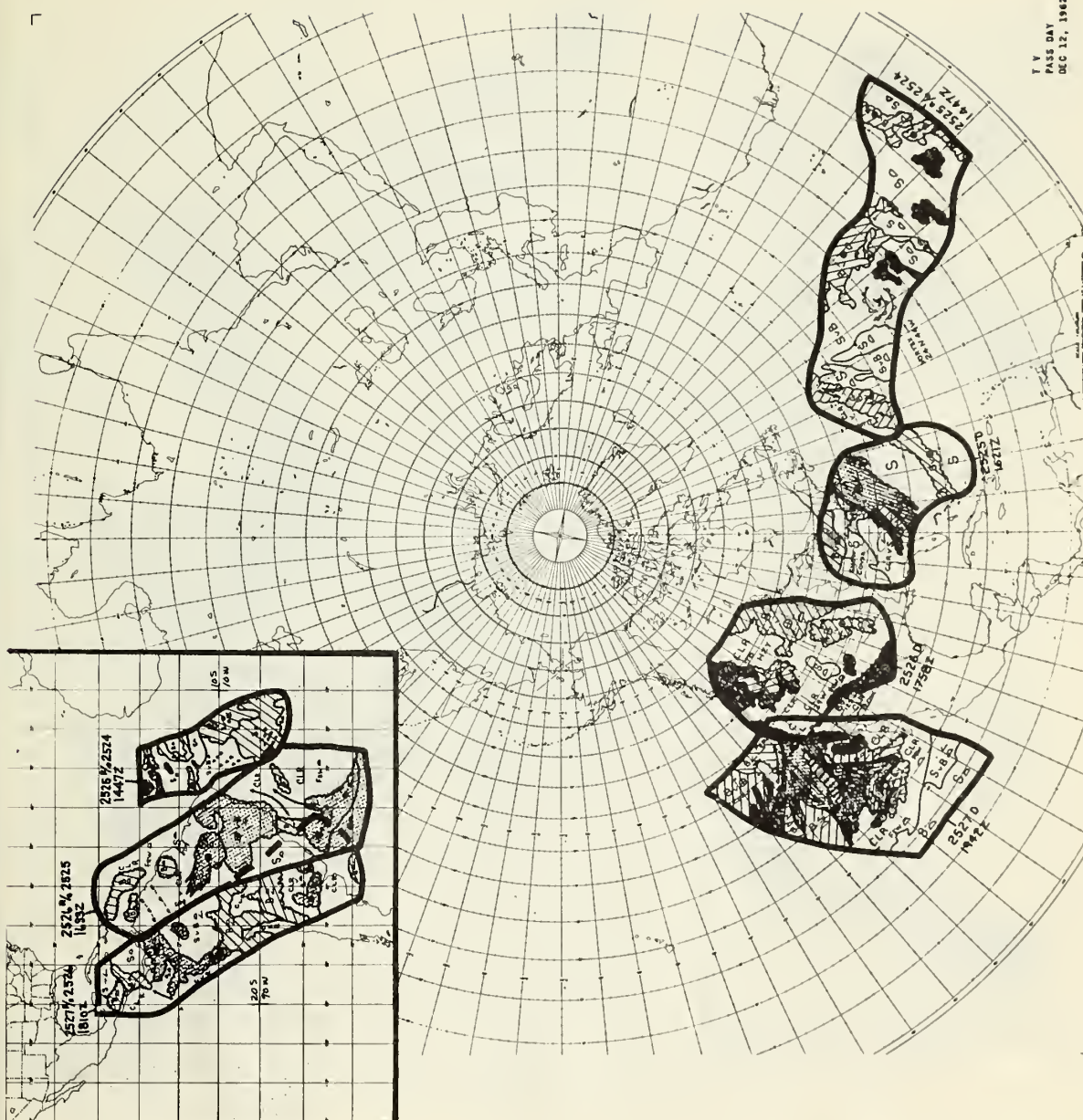




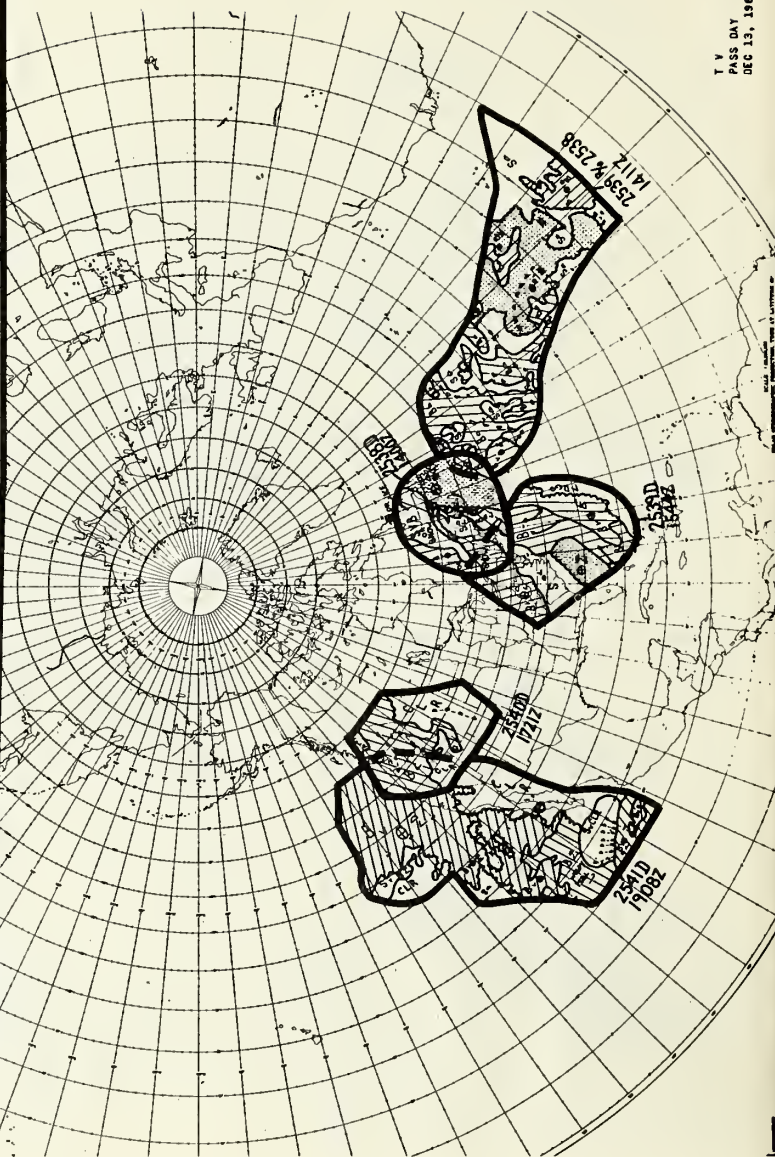
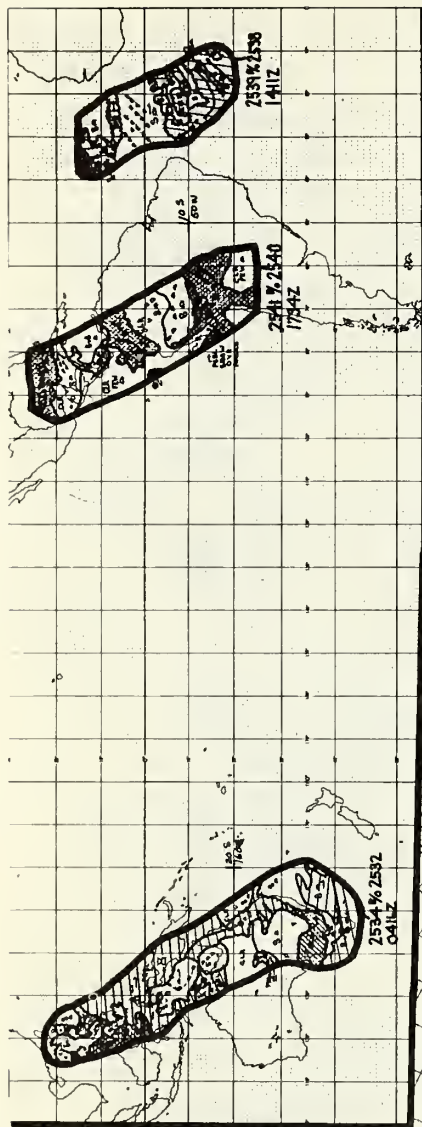




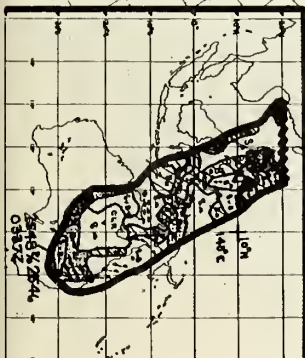
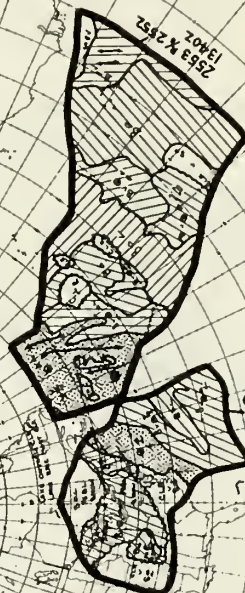






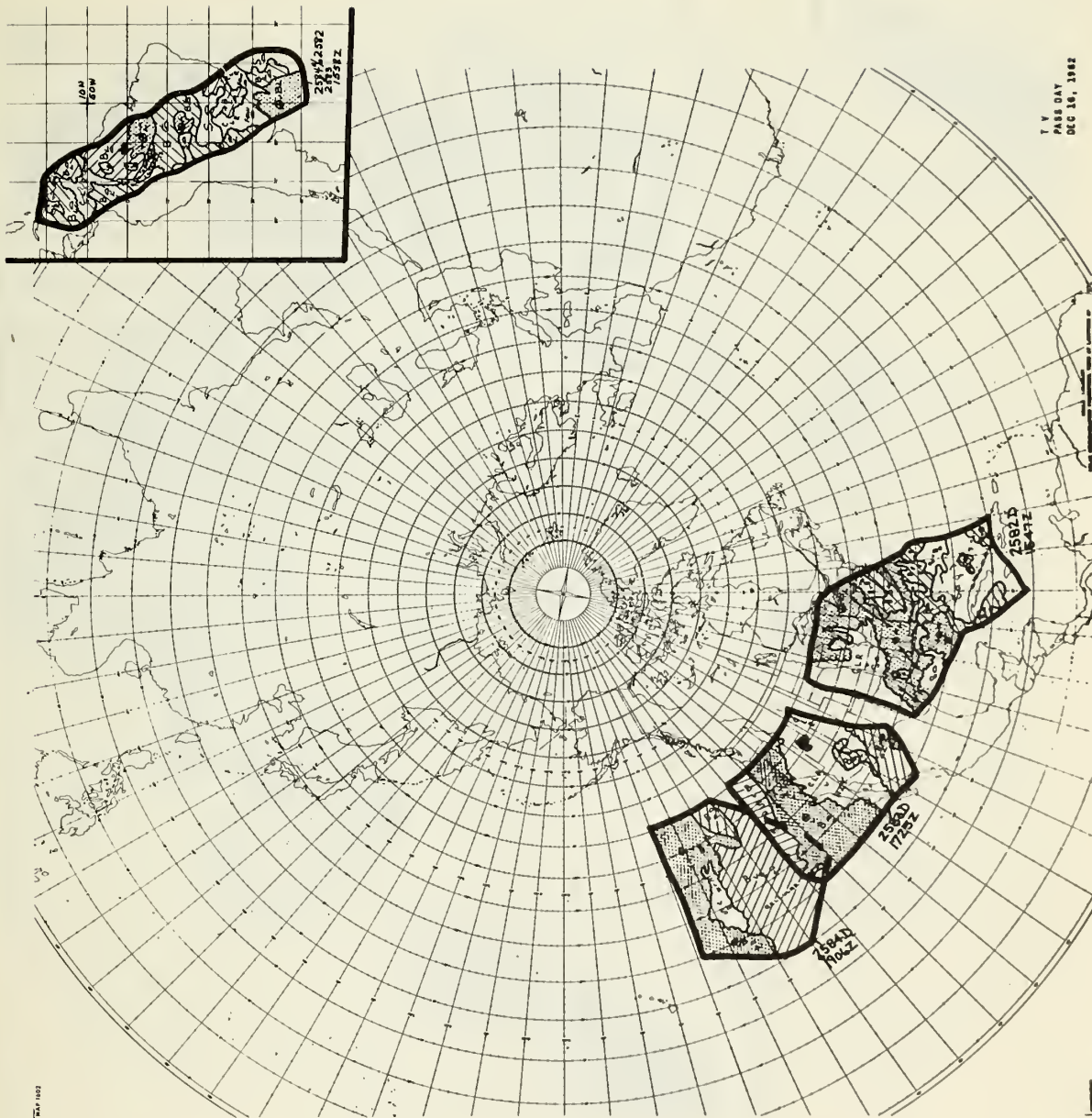
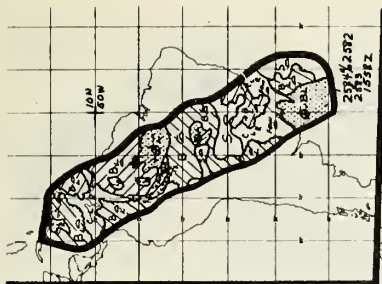


T V  
PASS DAY  
DEC 13, 1982



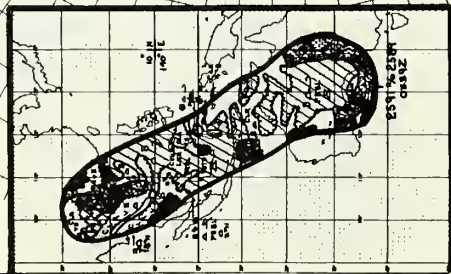
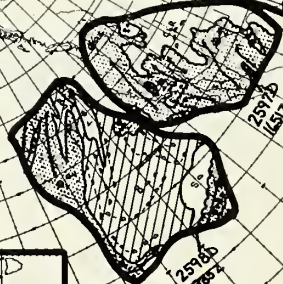
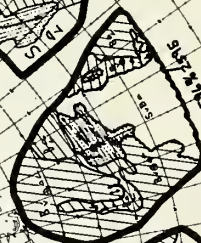
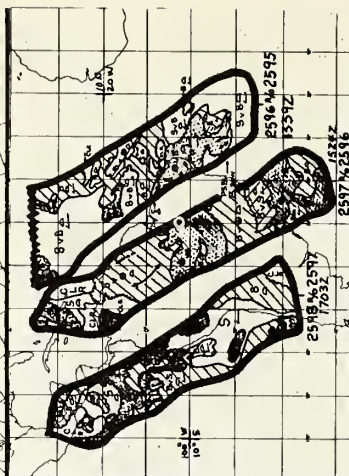
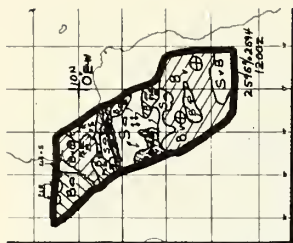




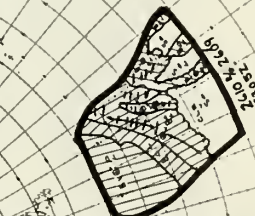
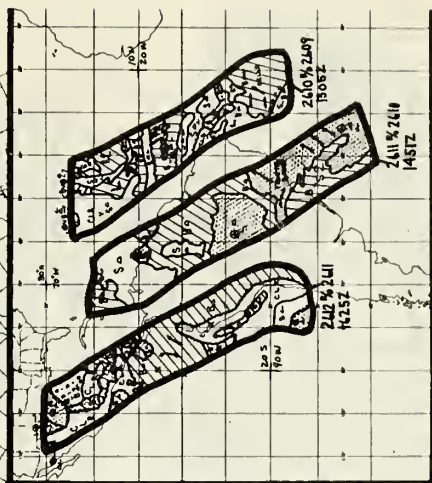
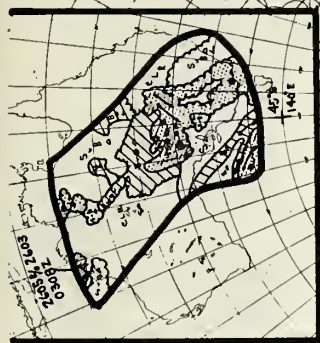
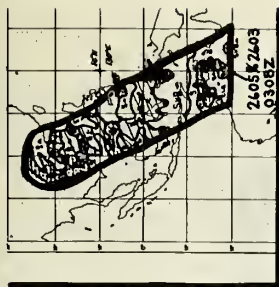


T V  
PASS DAY  
DEC 16, 1962



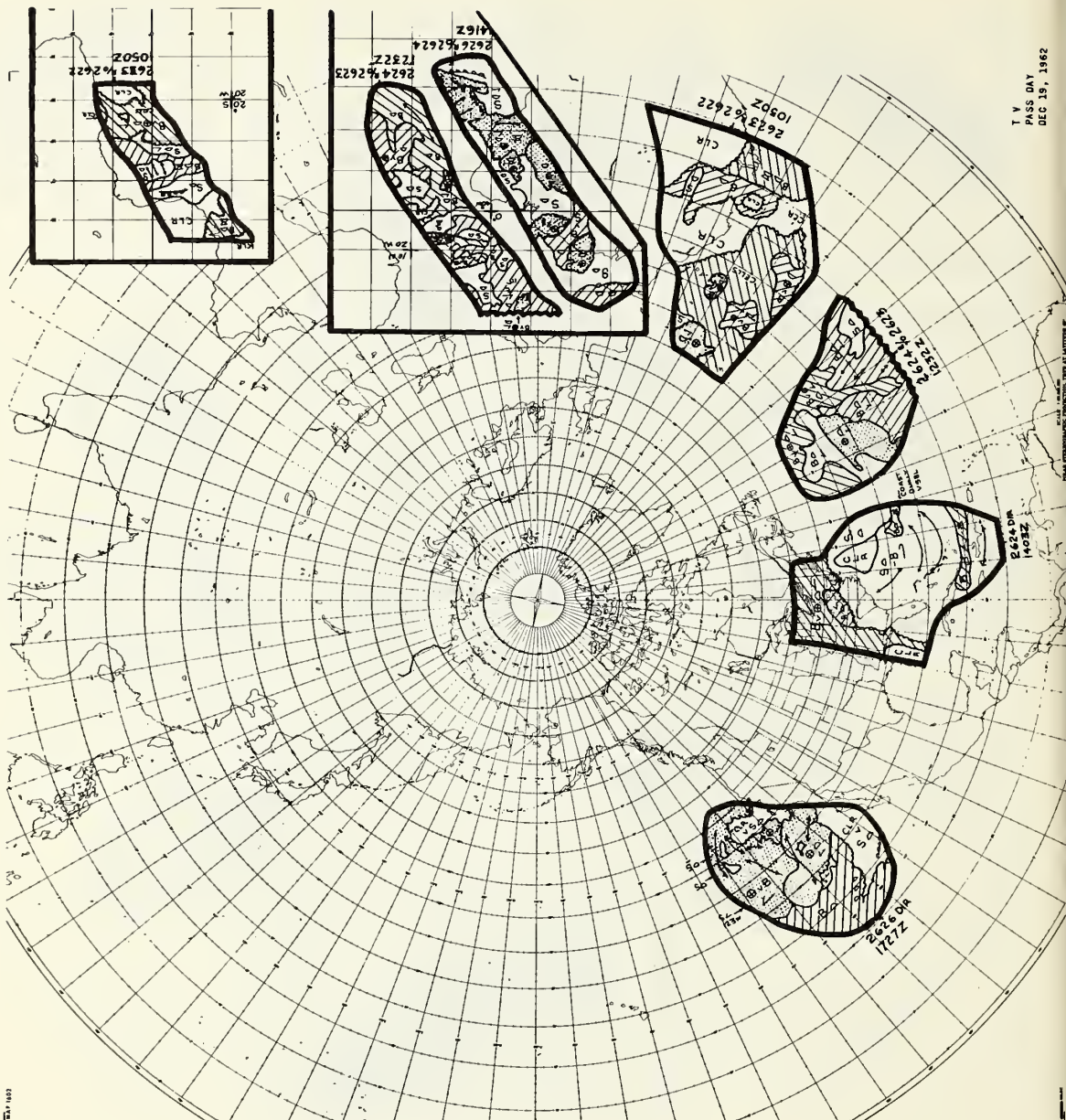


T V  
PASS DAY  
DEC 17, 1962

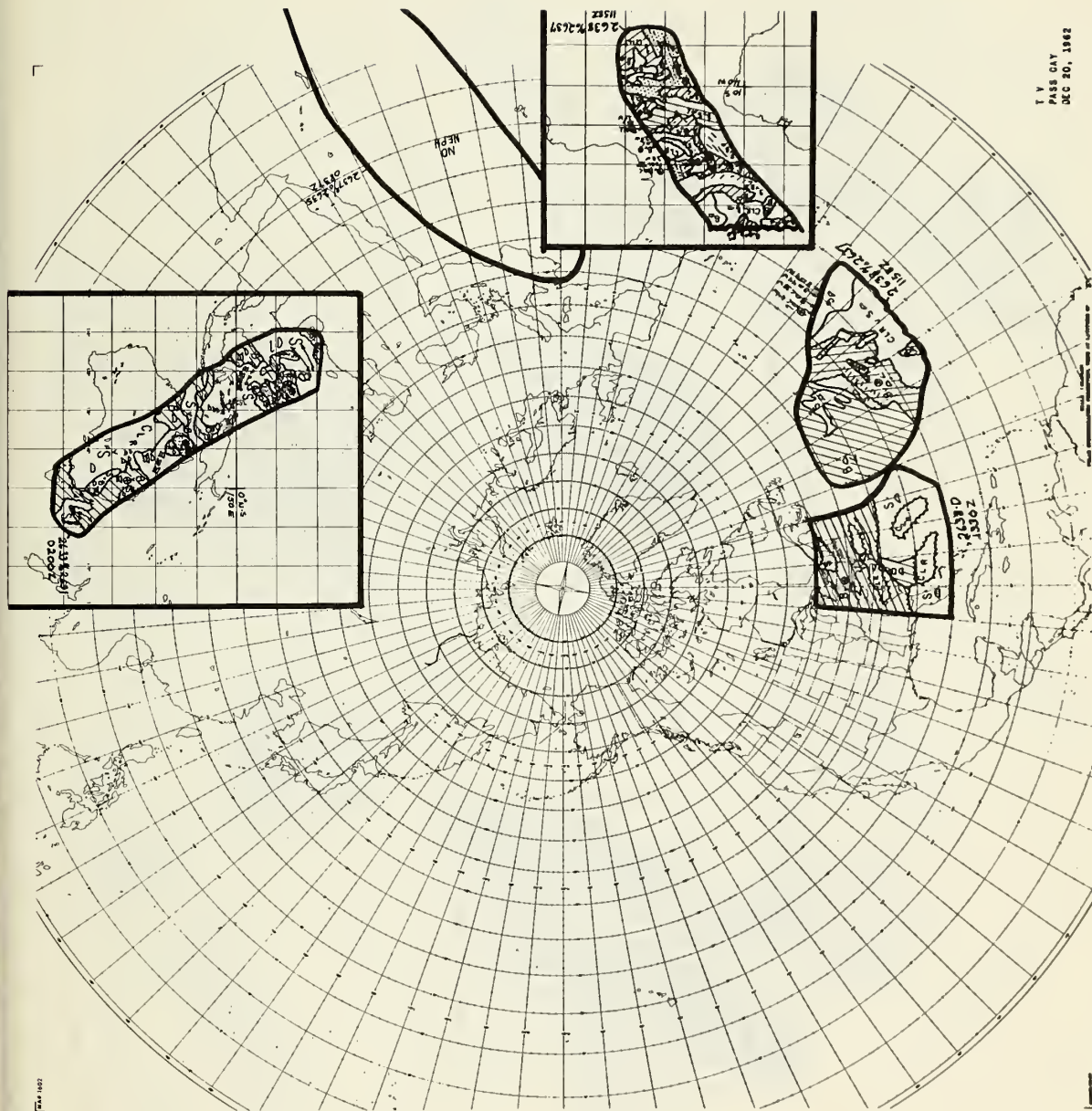


T V  
PASS DAY  
DEC 18, 1962



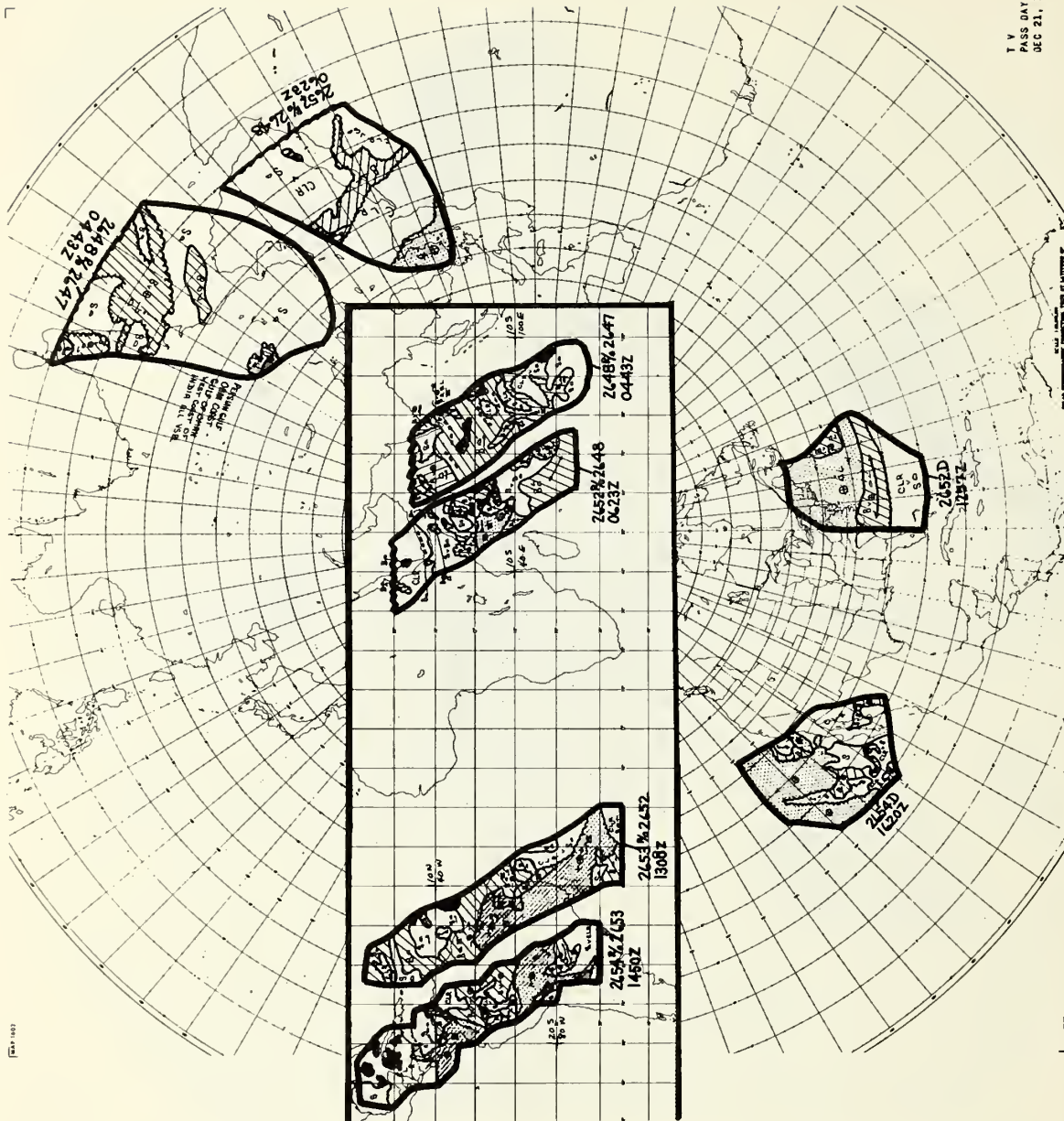


T V  
PASS DAY  
DEC 19, 1962

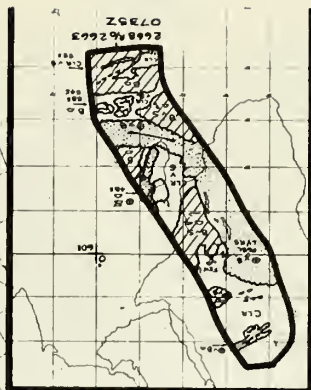


T V  
PASS DAY  
DEC 20, 1962

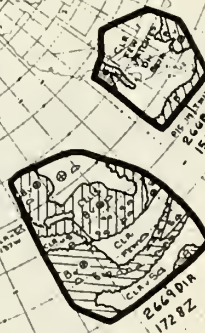
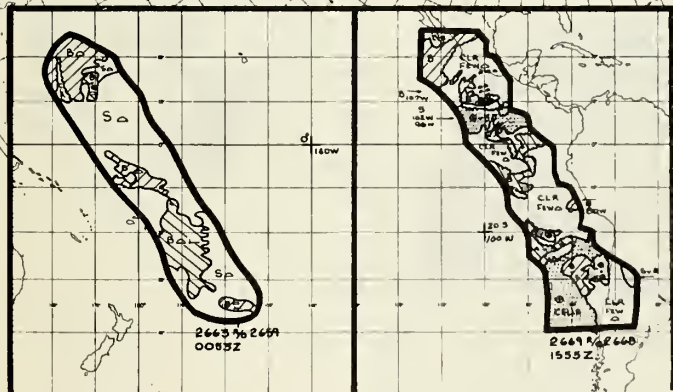




T V  
PASS DAY  
DEC 21, 1962



T V  
PASS DAY  
JCC 22, 1962



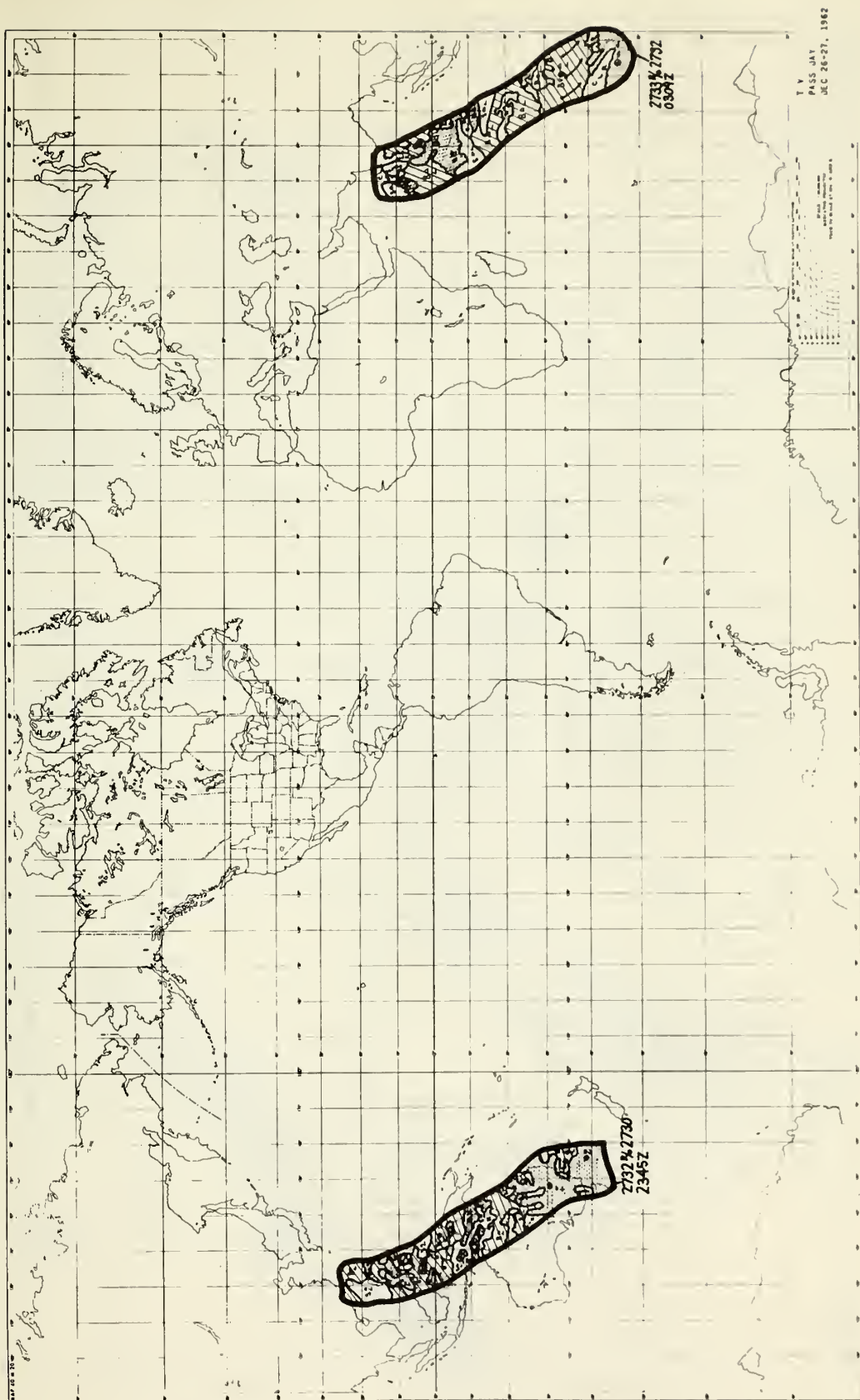




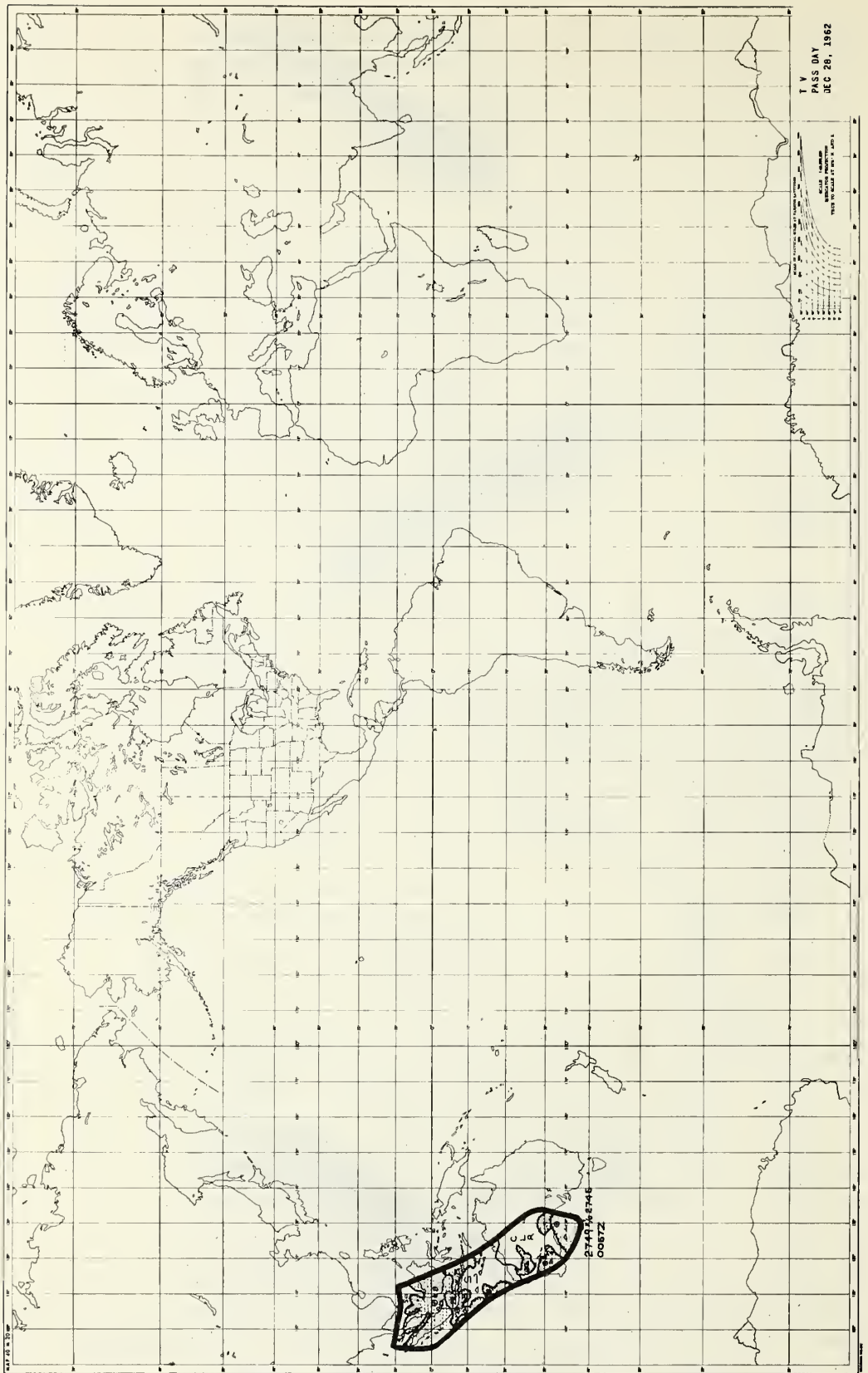


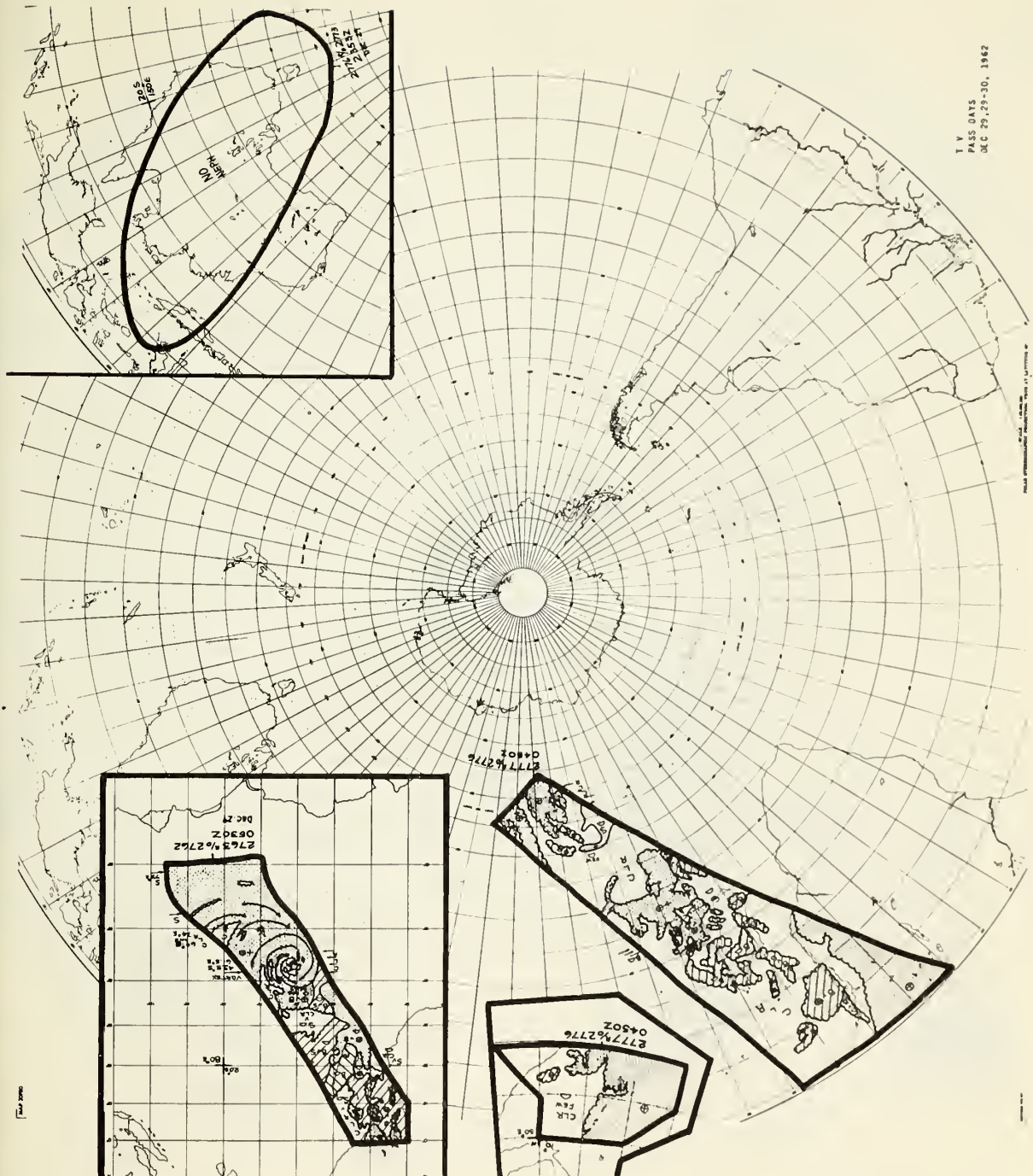








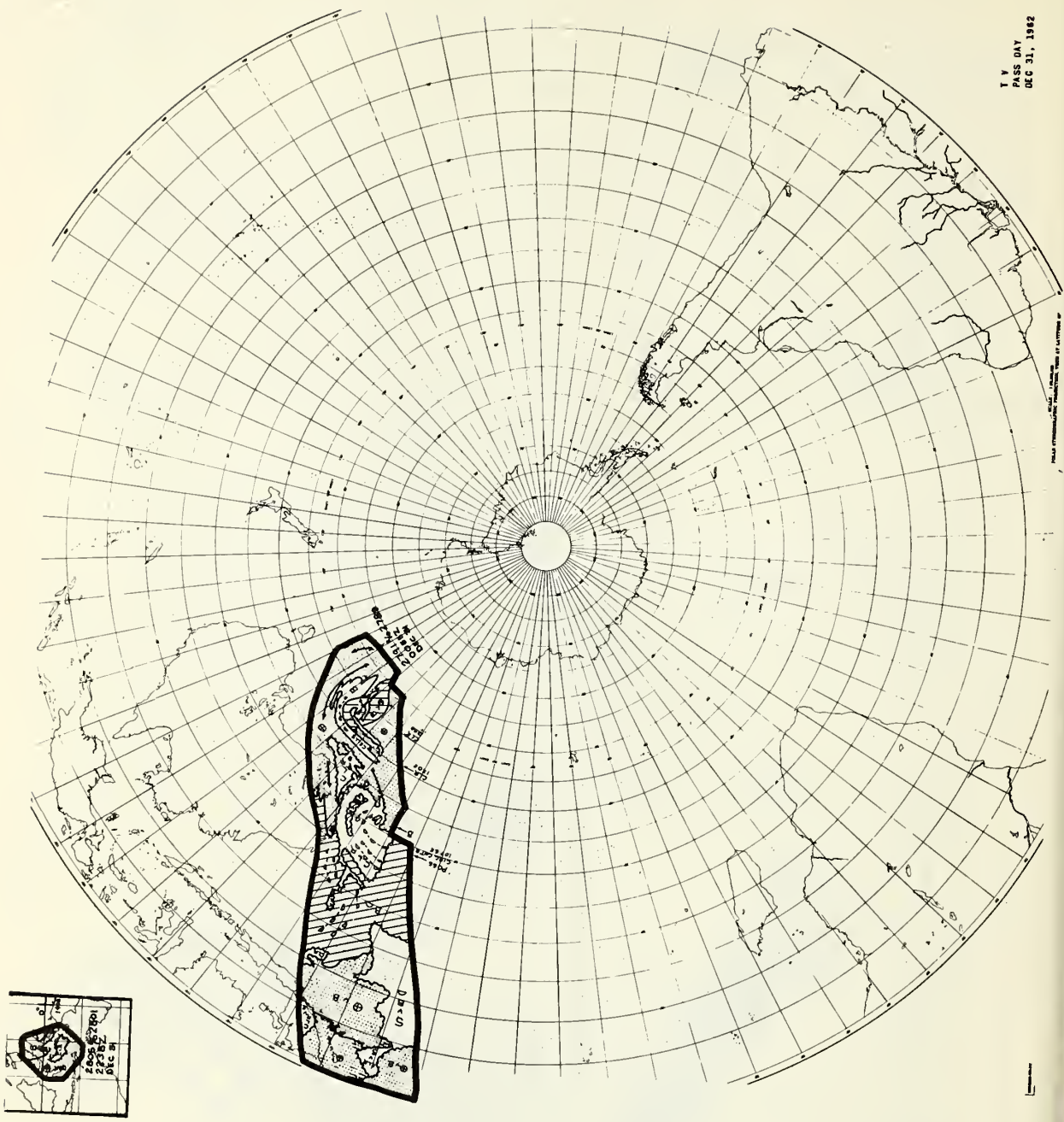


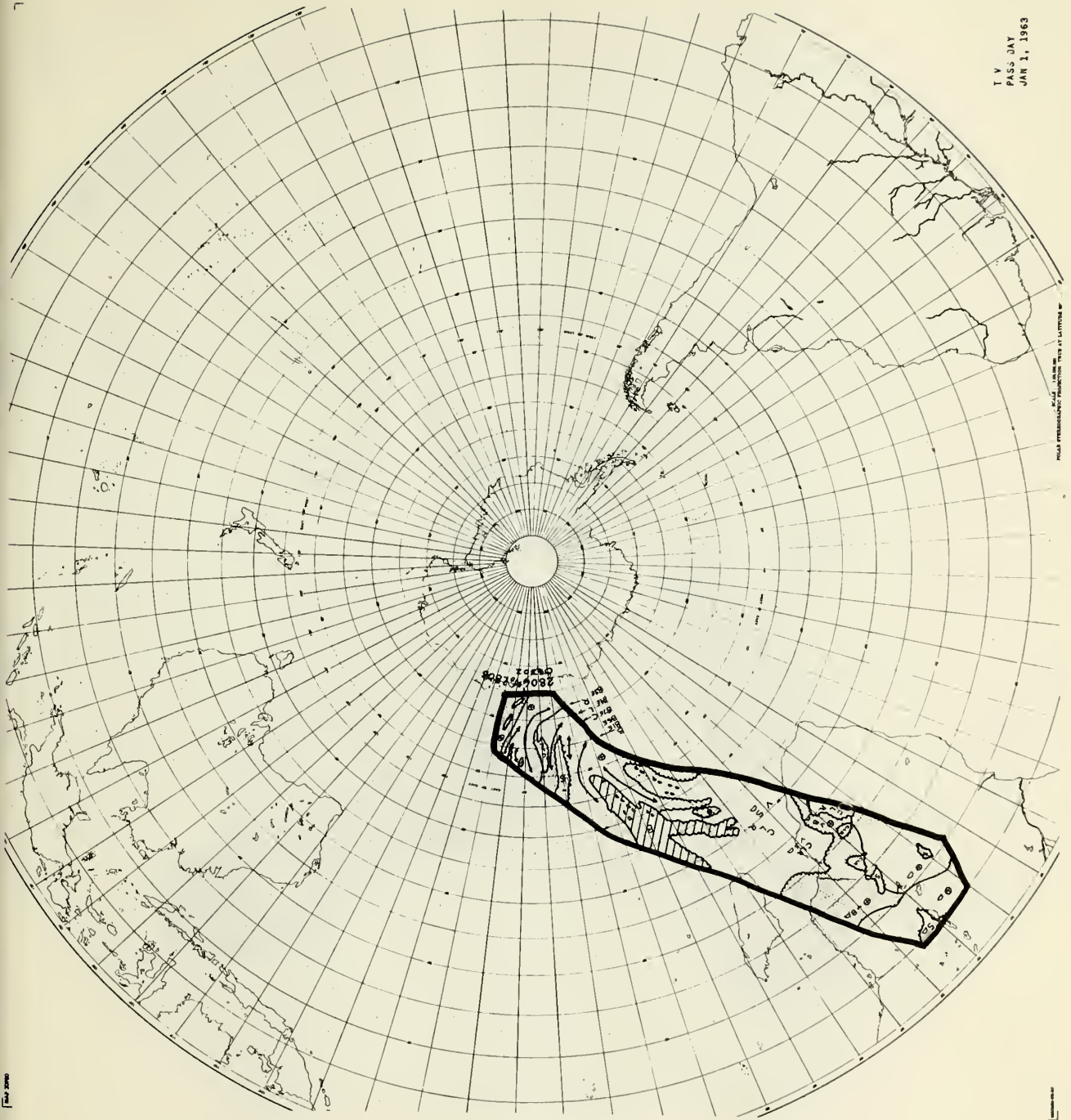


T V  
PASS OATS  
DEC 29, 29-30, 1962

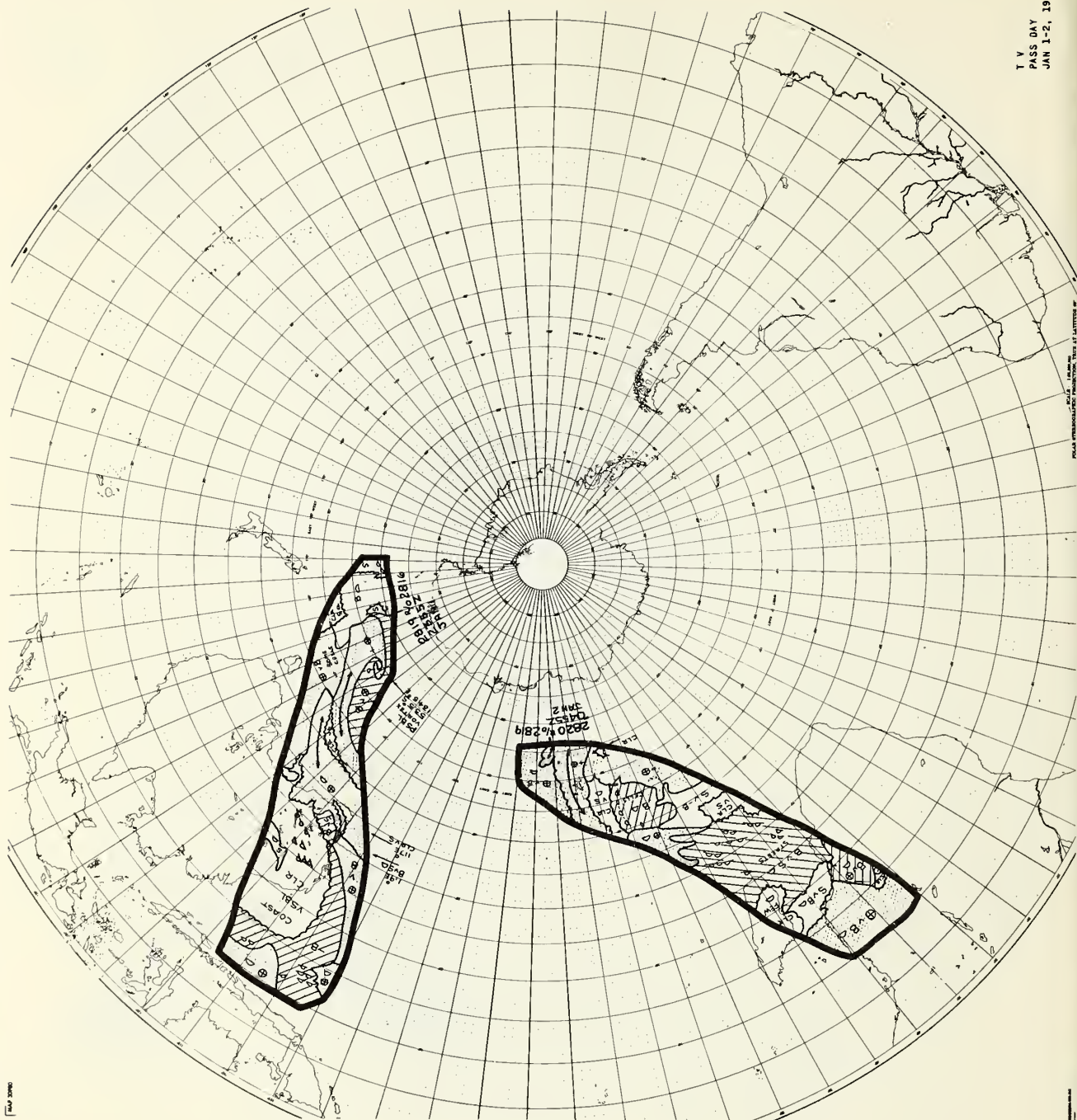


T V  
PASS DAY  
DEC 31, 1962



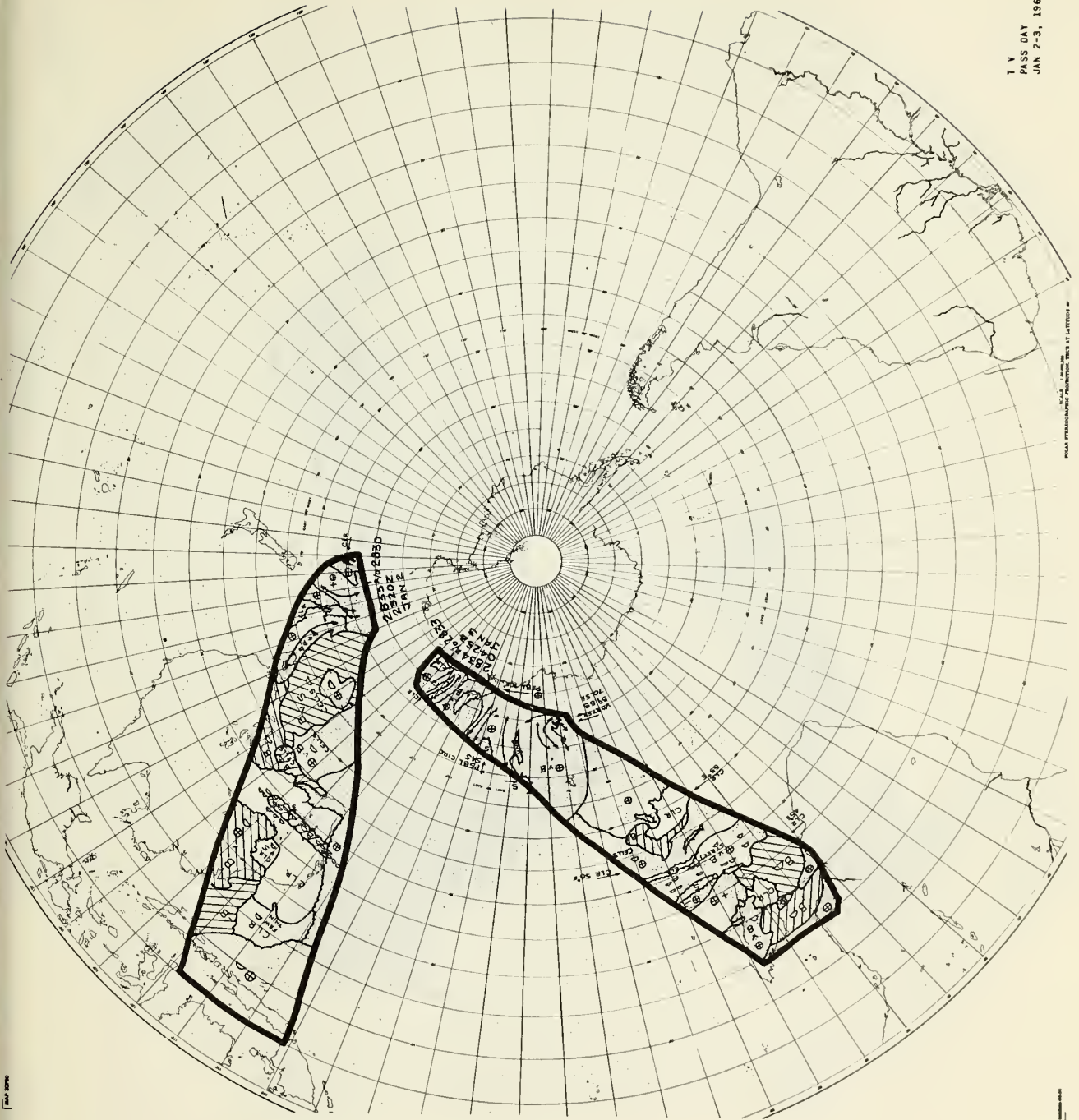




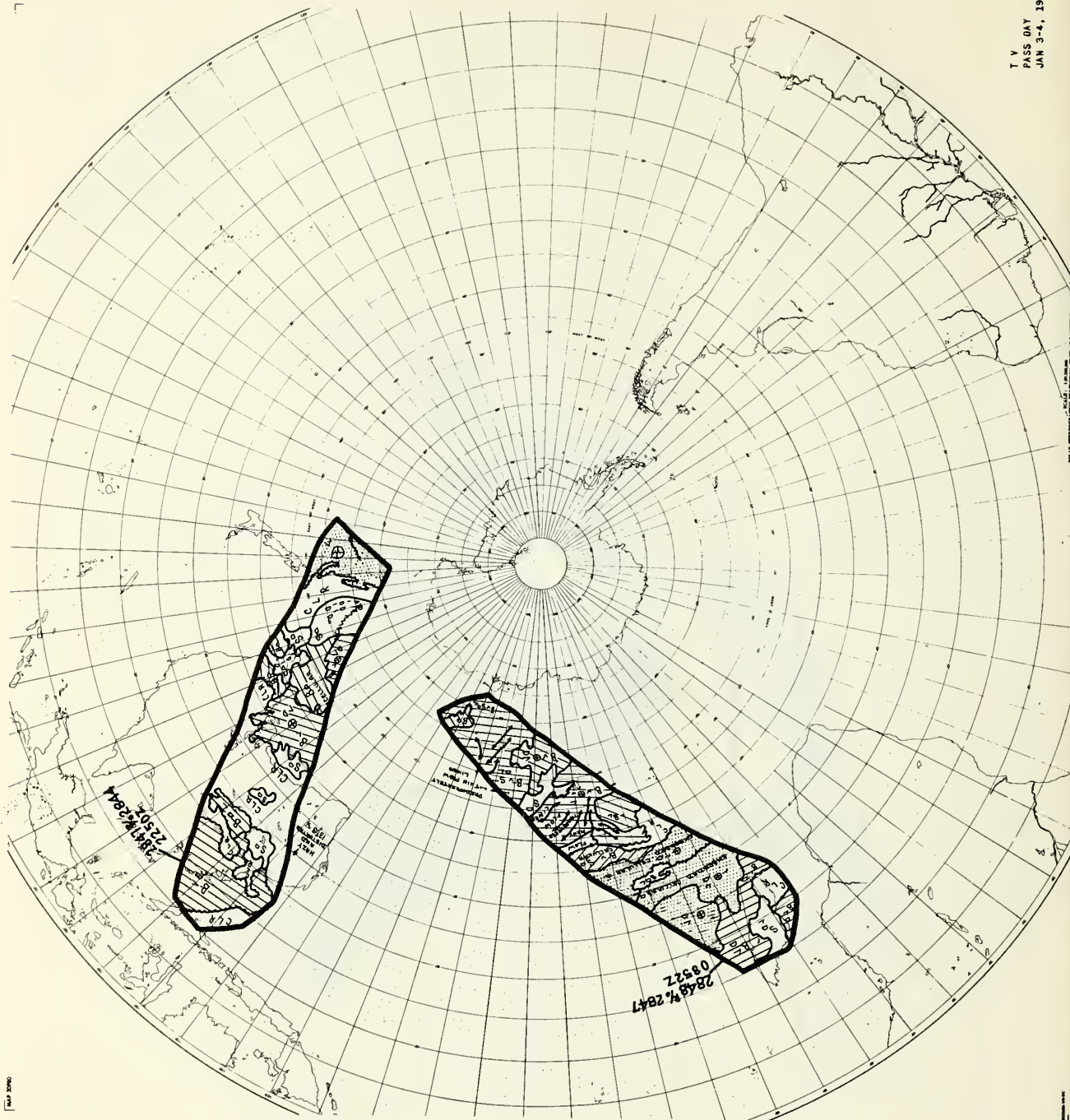


T V  
PASS DAY  
JAN 1-2, 1962

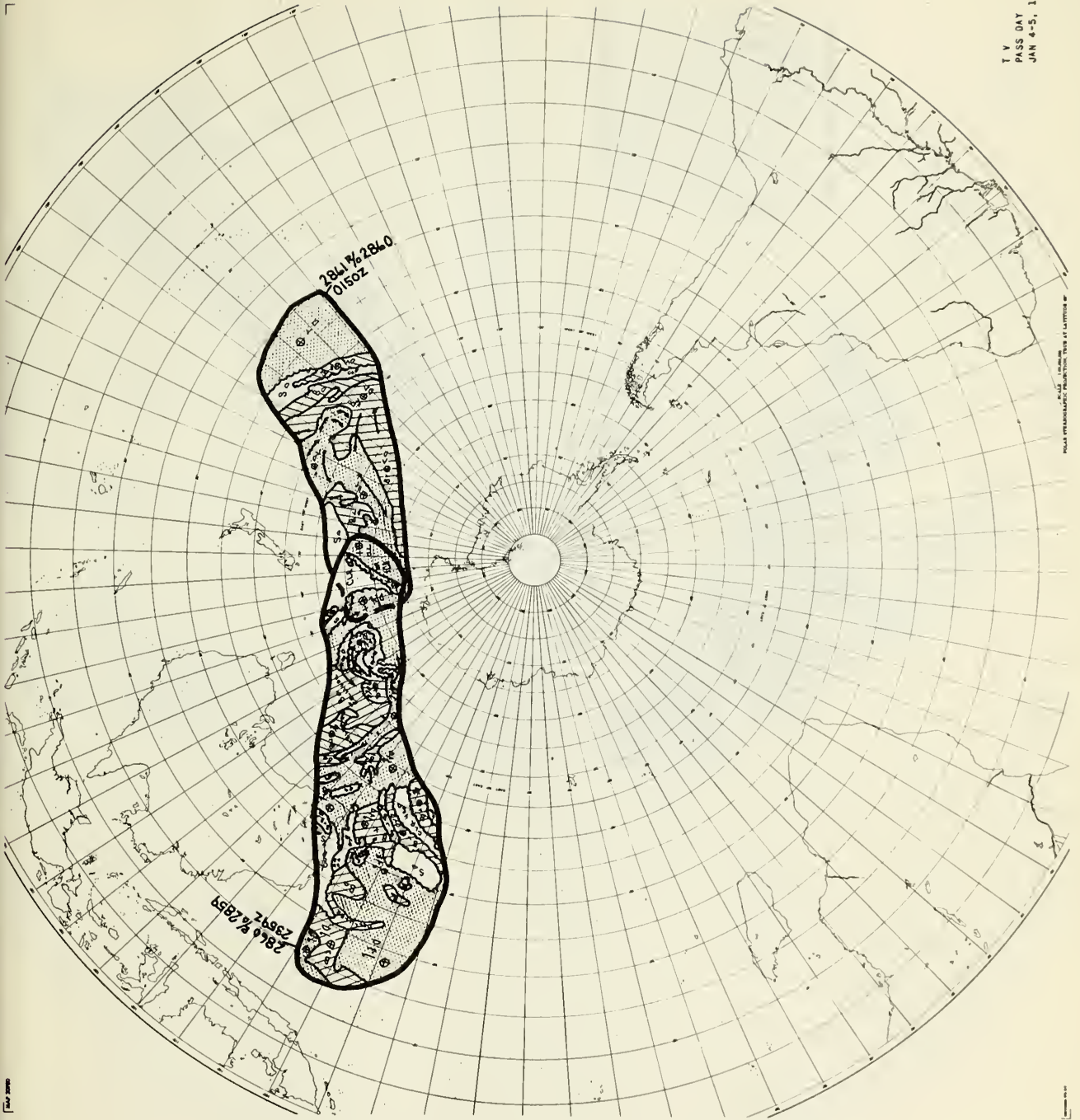
THE UNIVERSITY OF CHICAGO PRESS



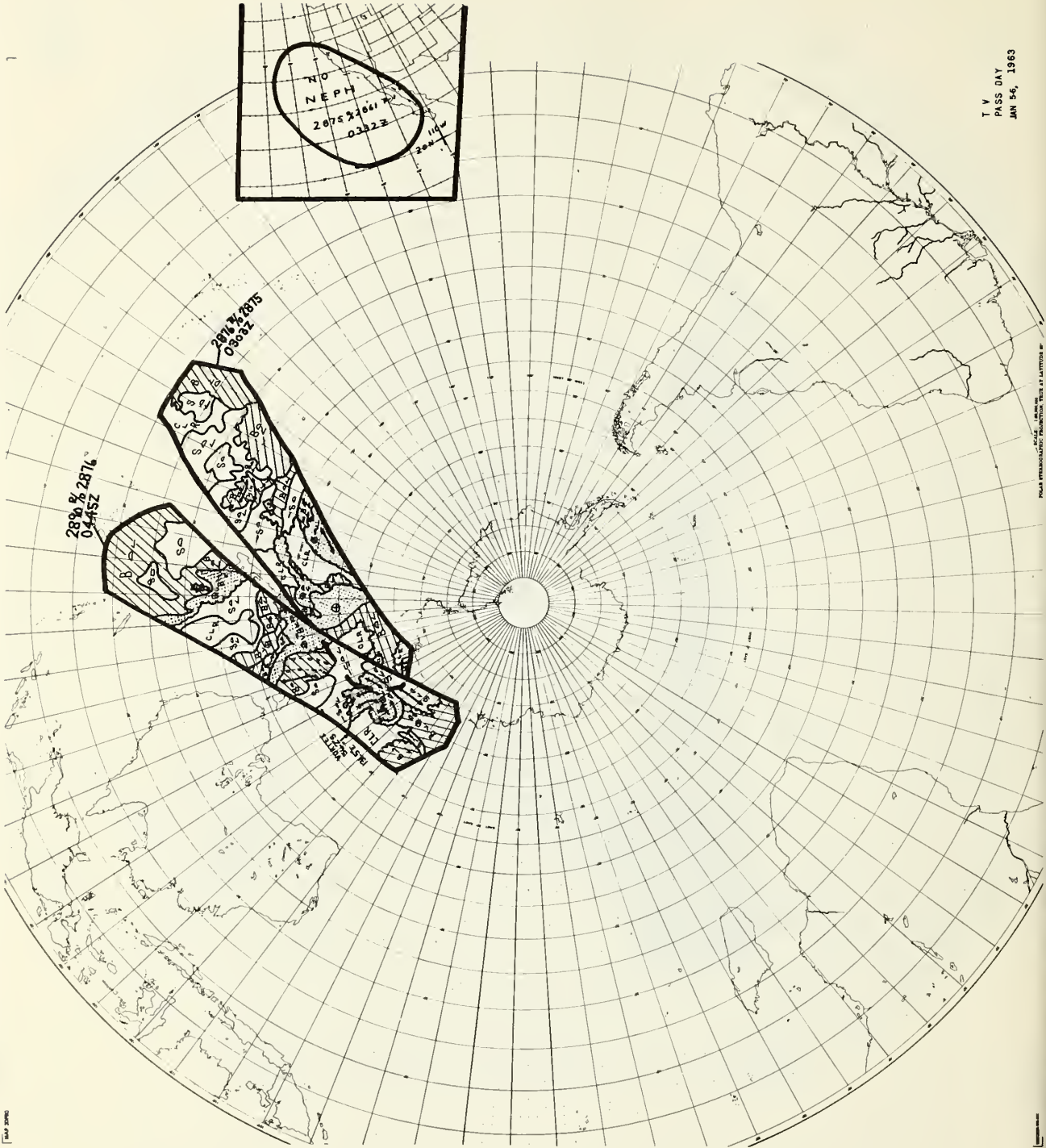




T Y  
PASS DAY  
JAN 4-5, 1963

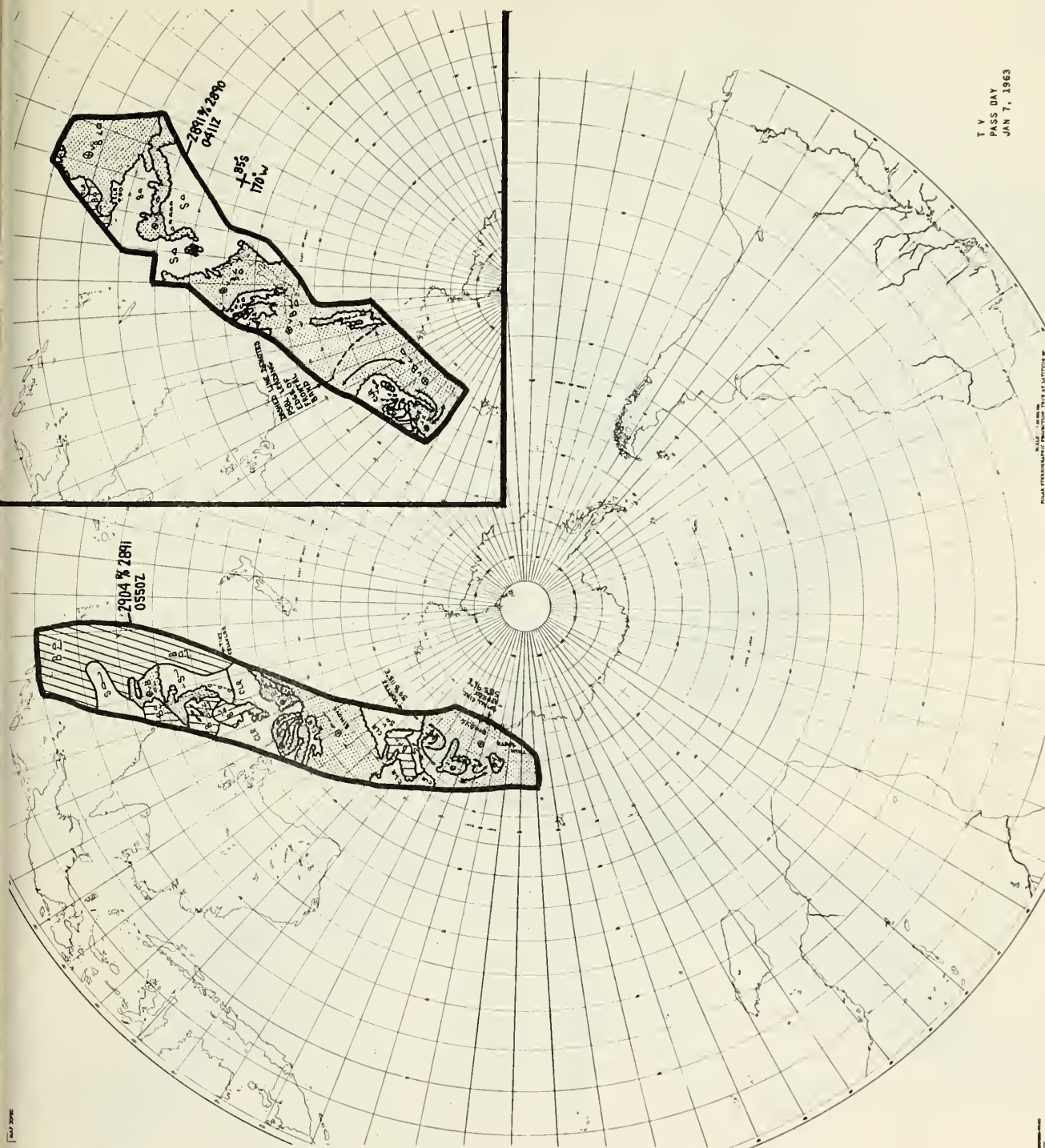




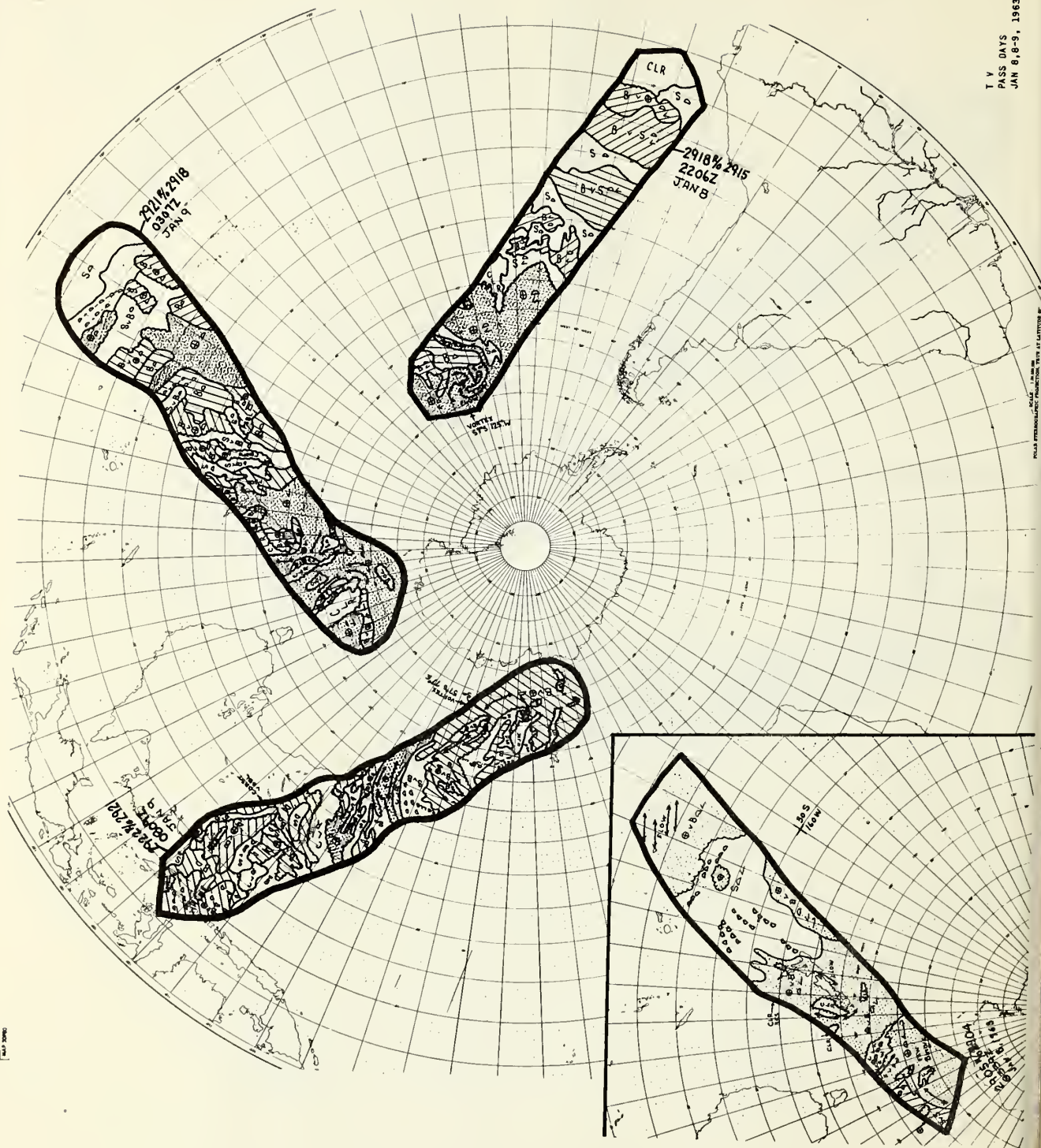


T V  
PASS DAY  
JAN 56, 1963

— **Dr. A. J. G. ...**

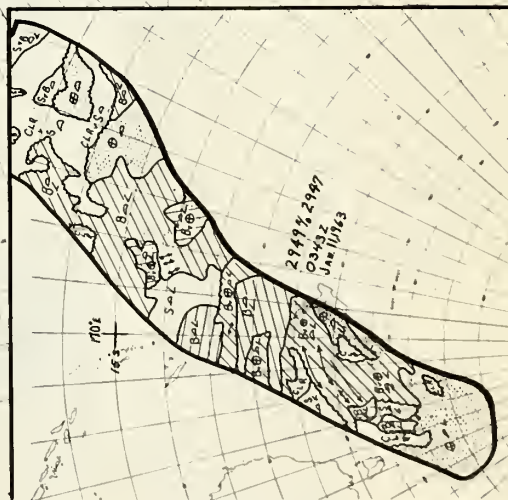
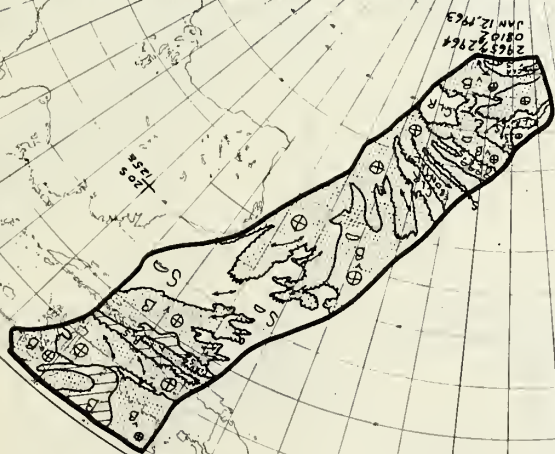
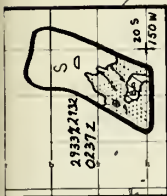




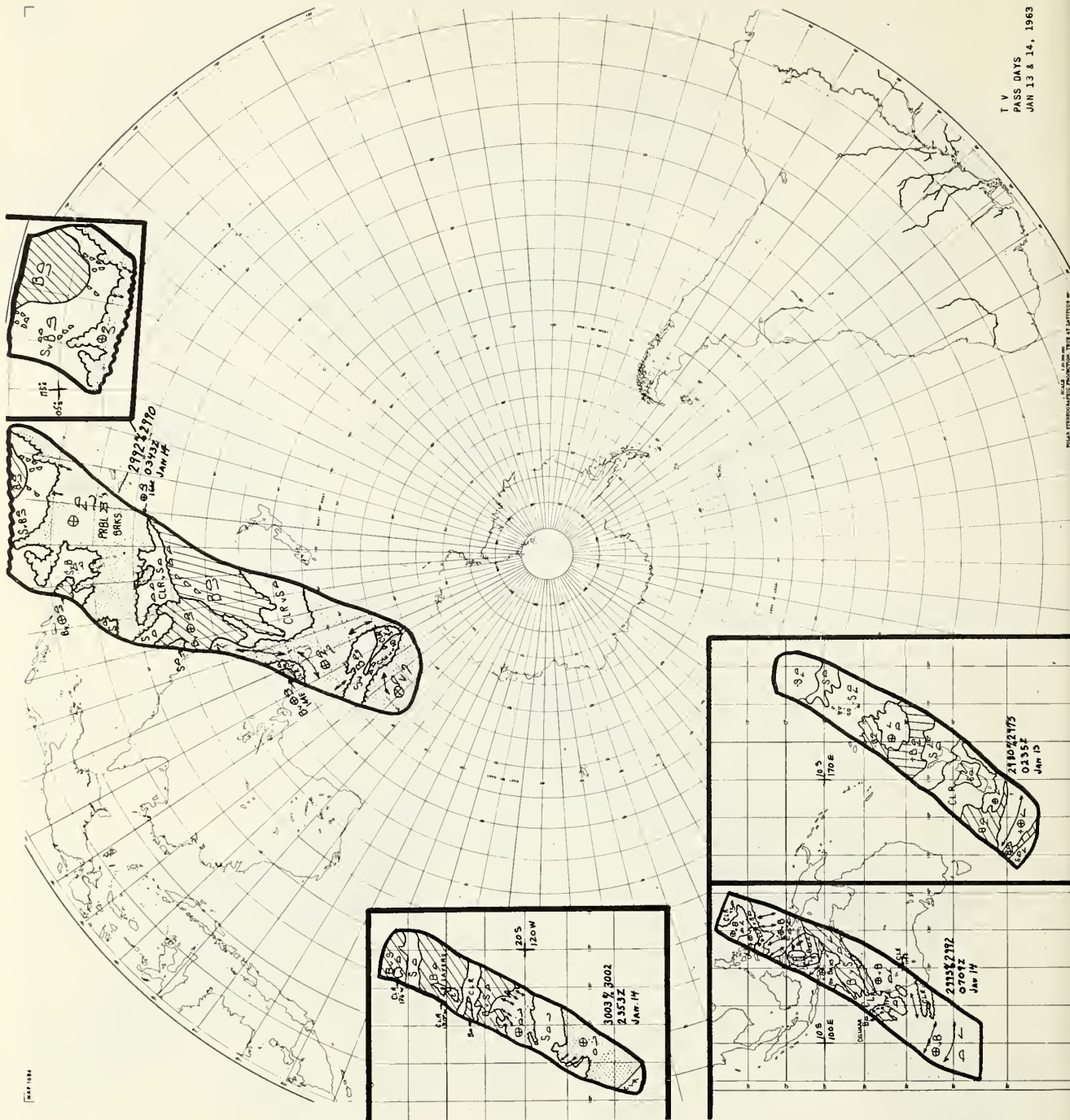


T V  
PASS DAYS  
JAN 8, 8-9, 1963

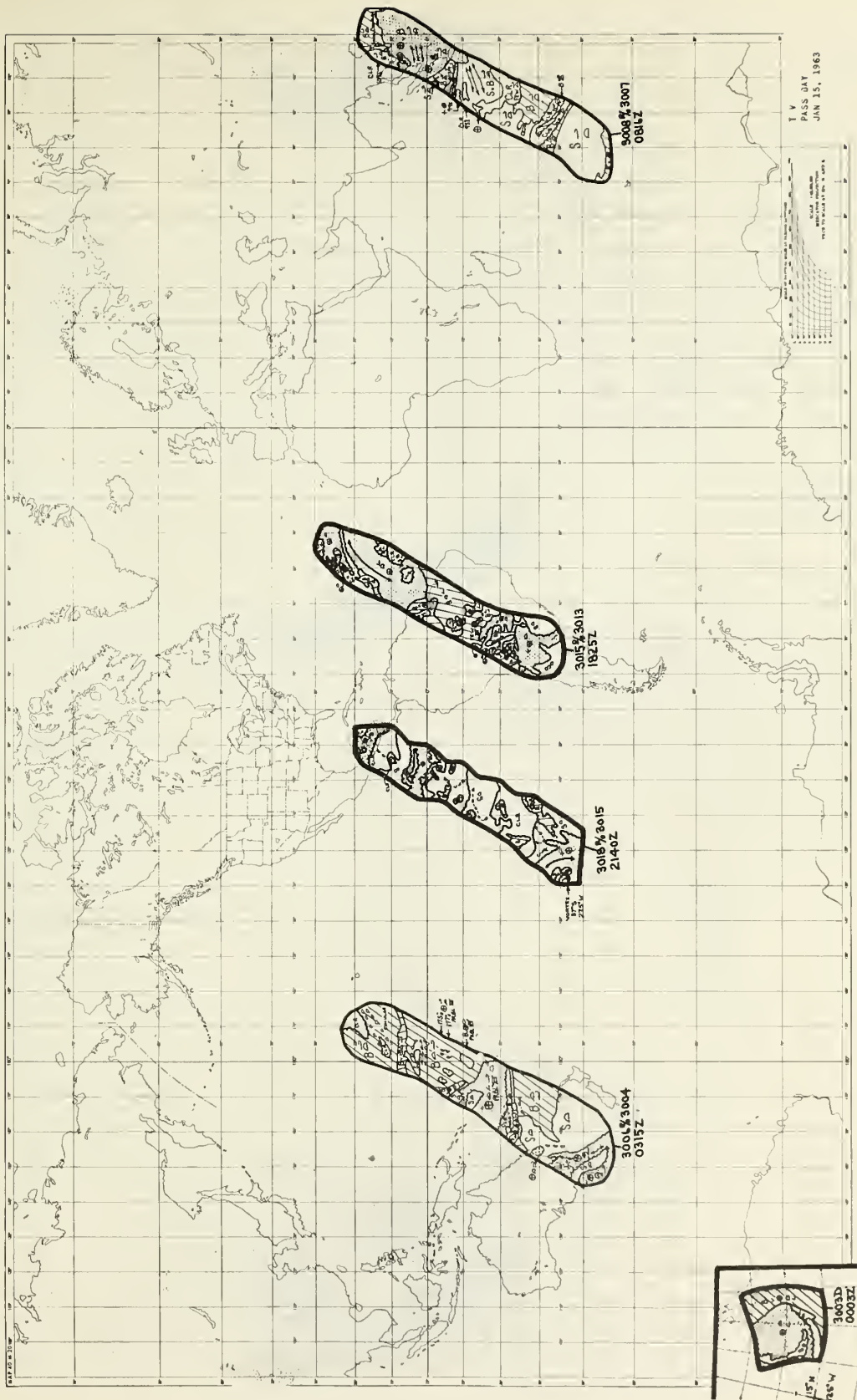
U.S. AIR FORCE  
POLAR PROJECTION MAP PRODUCTION UNIT AT LANTAN, MS



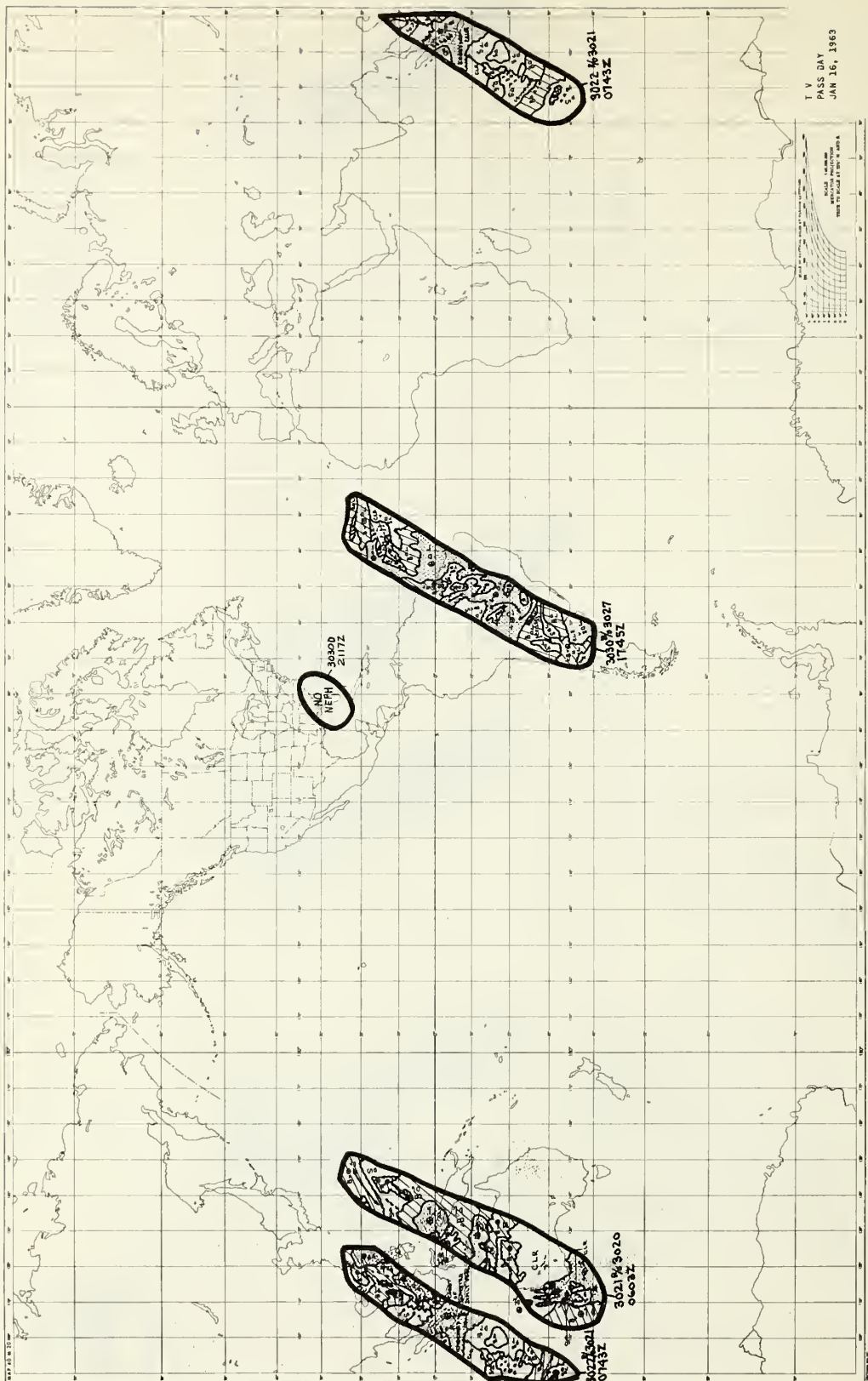


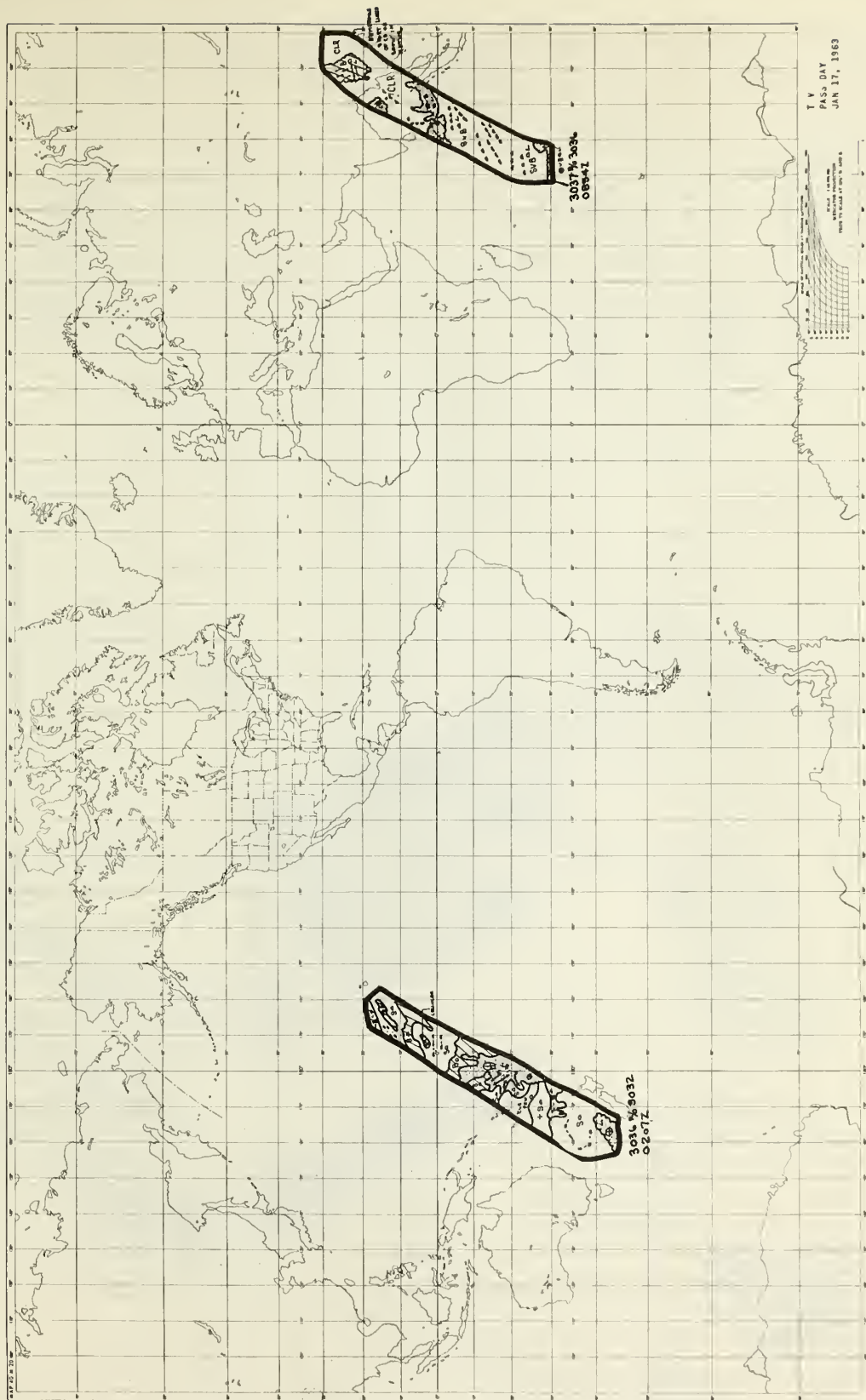


T. V.  
PASS DAYS  
JAN 13 & 14, 1963

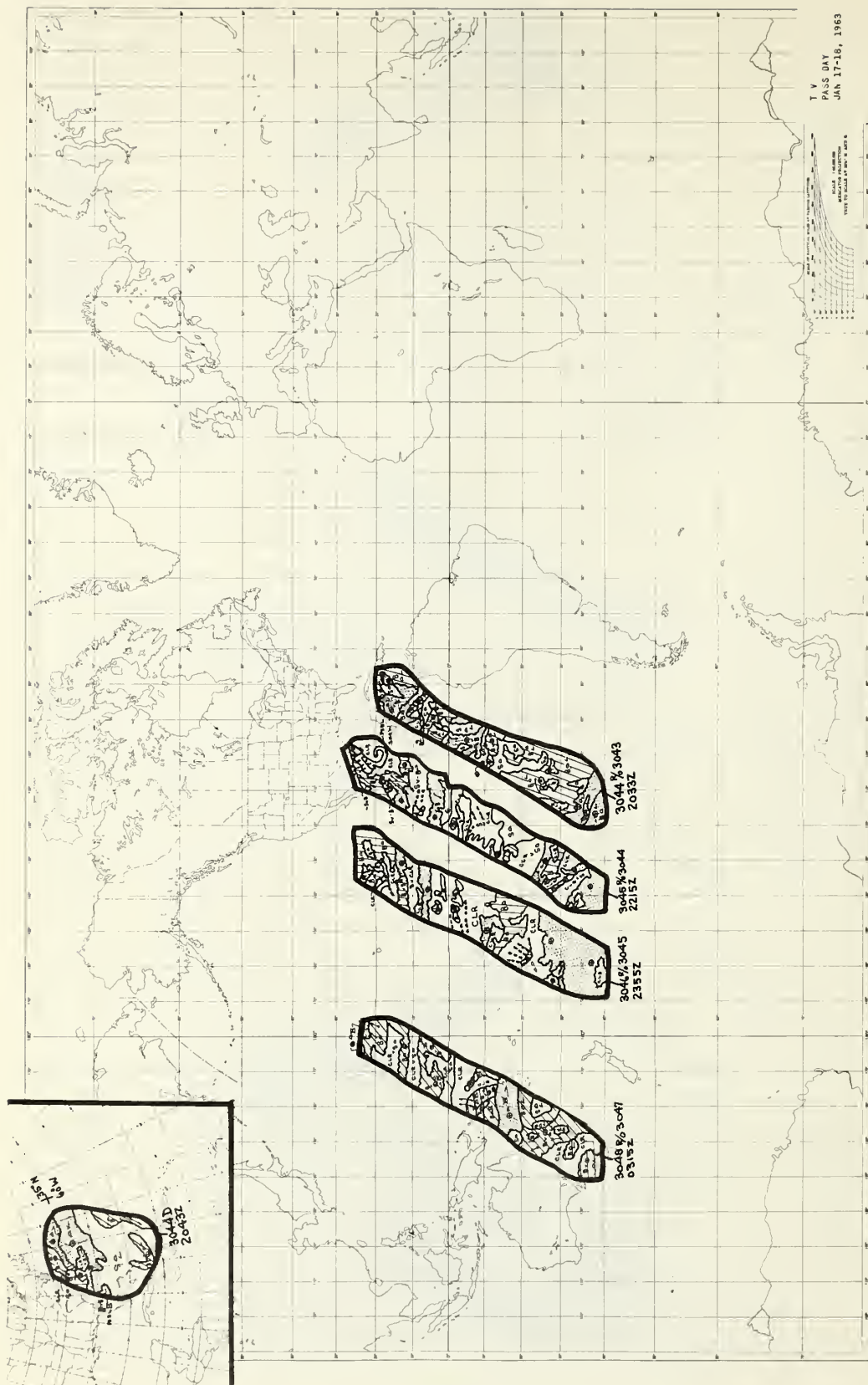


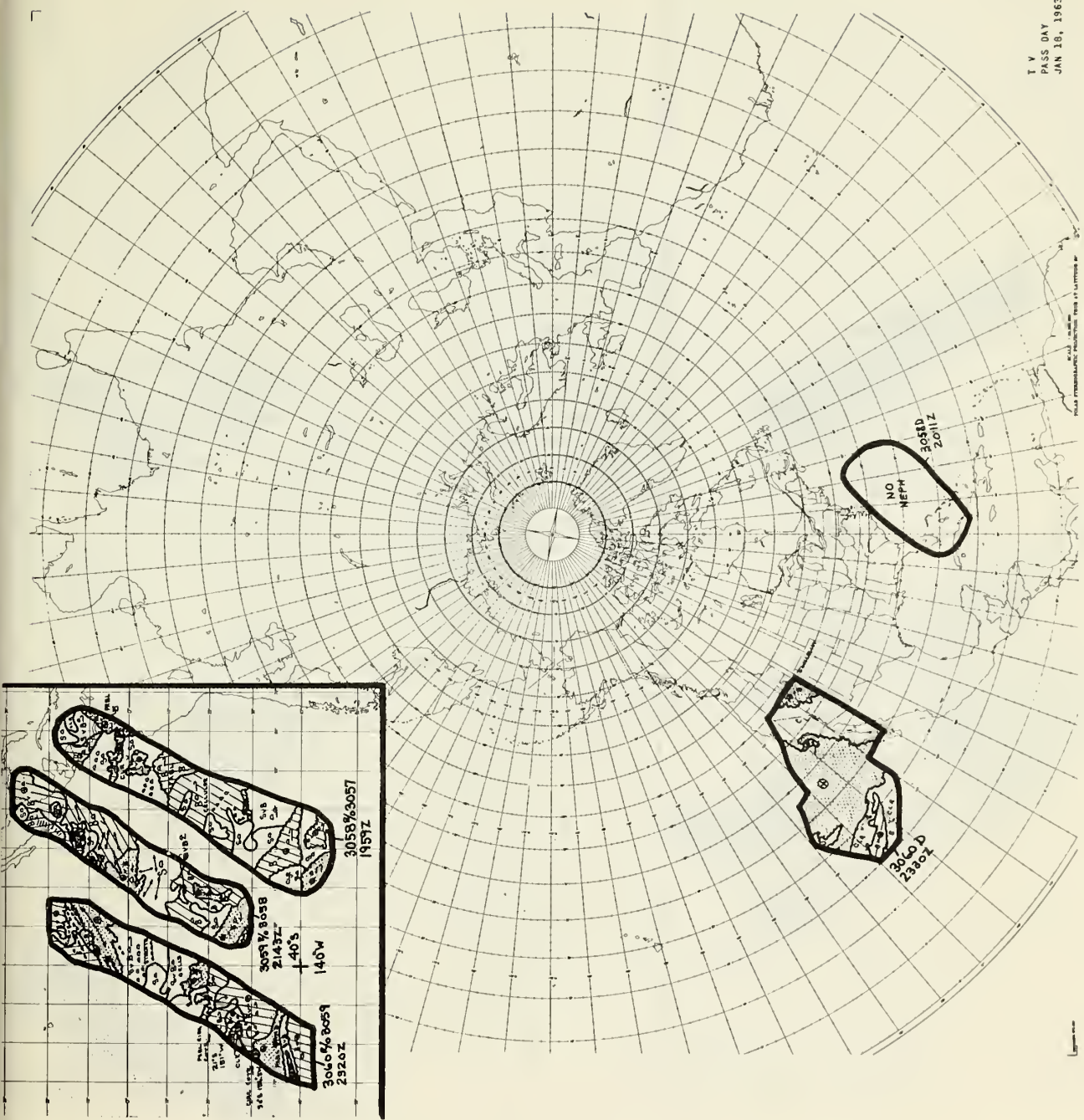






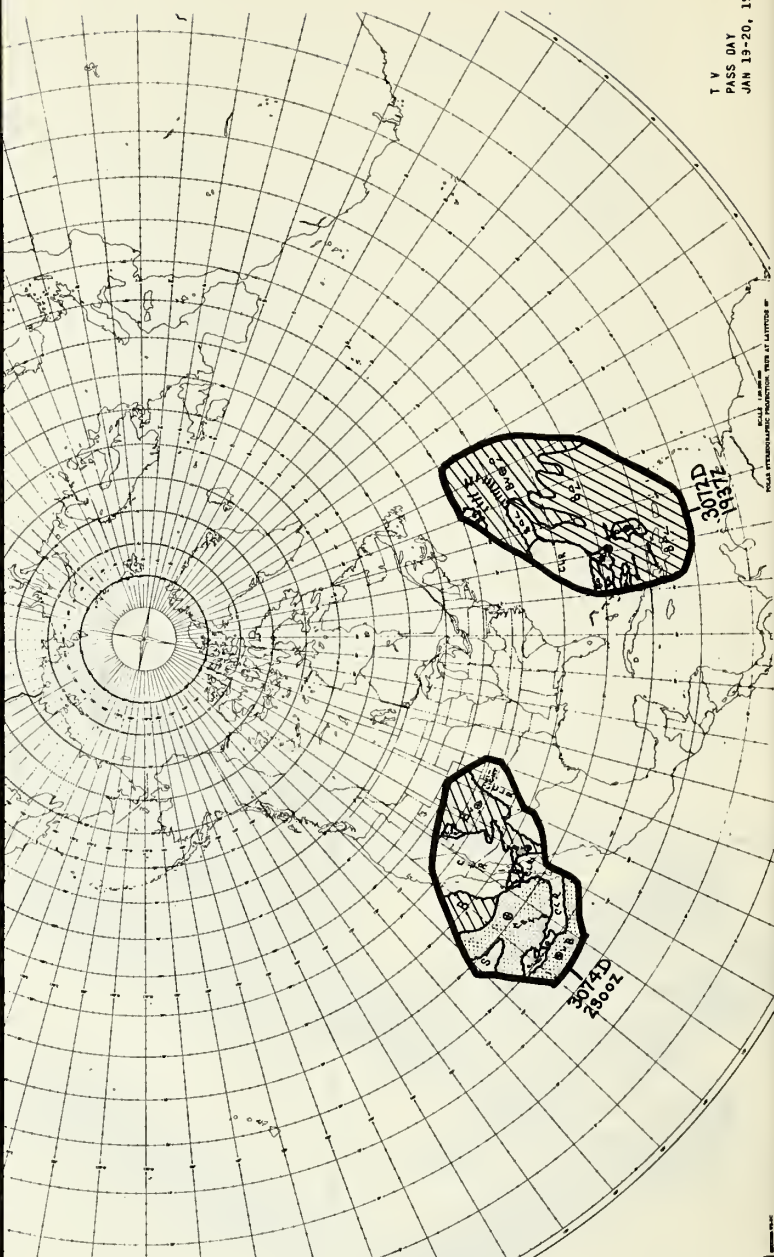
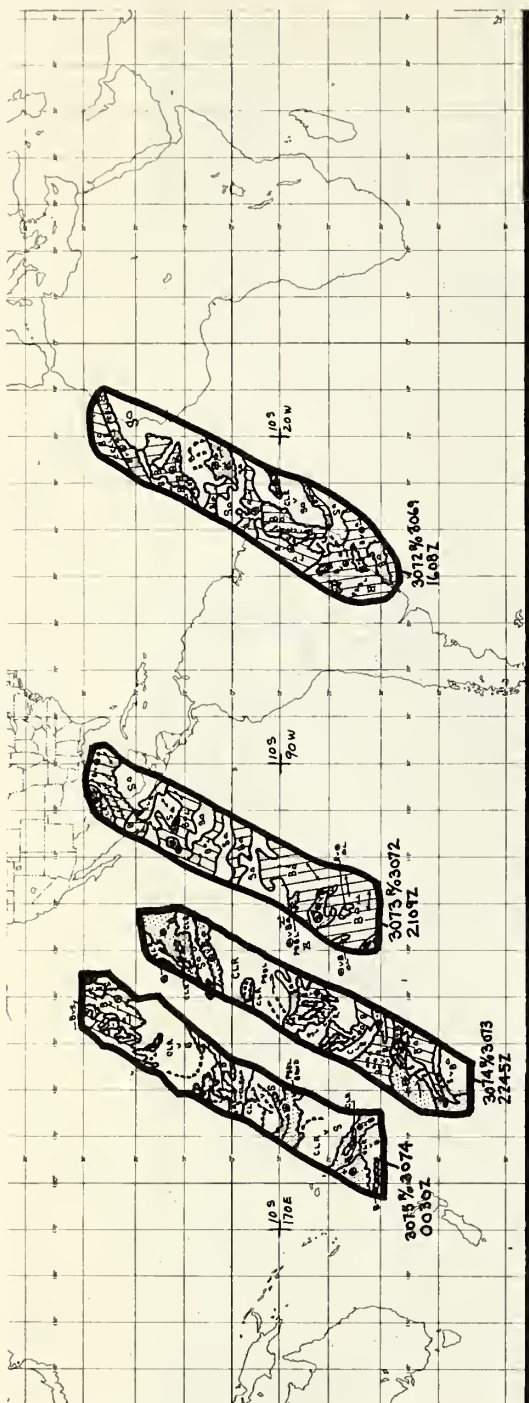






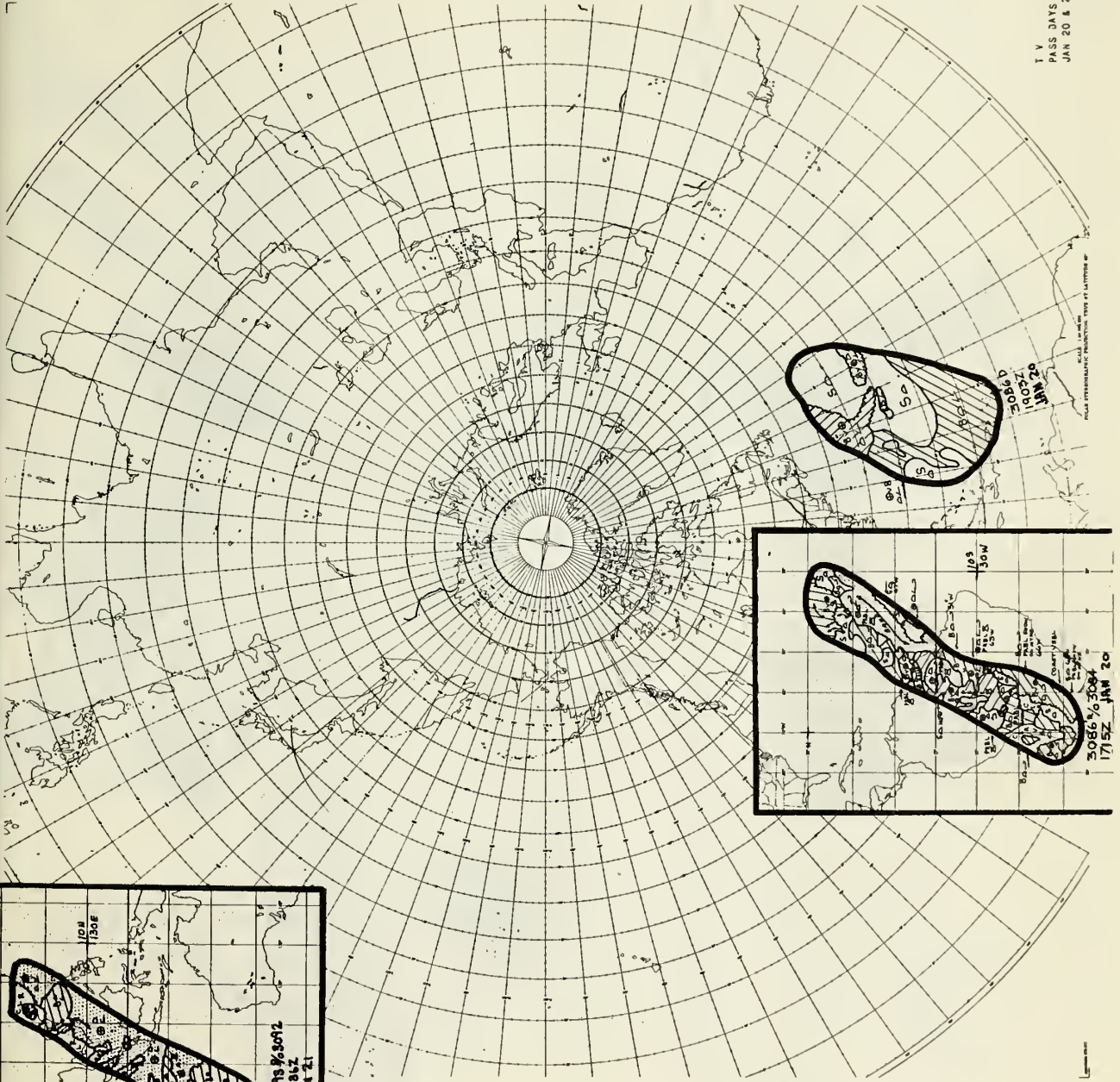
T V  
PASS OAY  
JAN 18, 1963



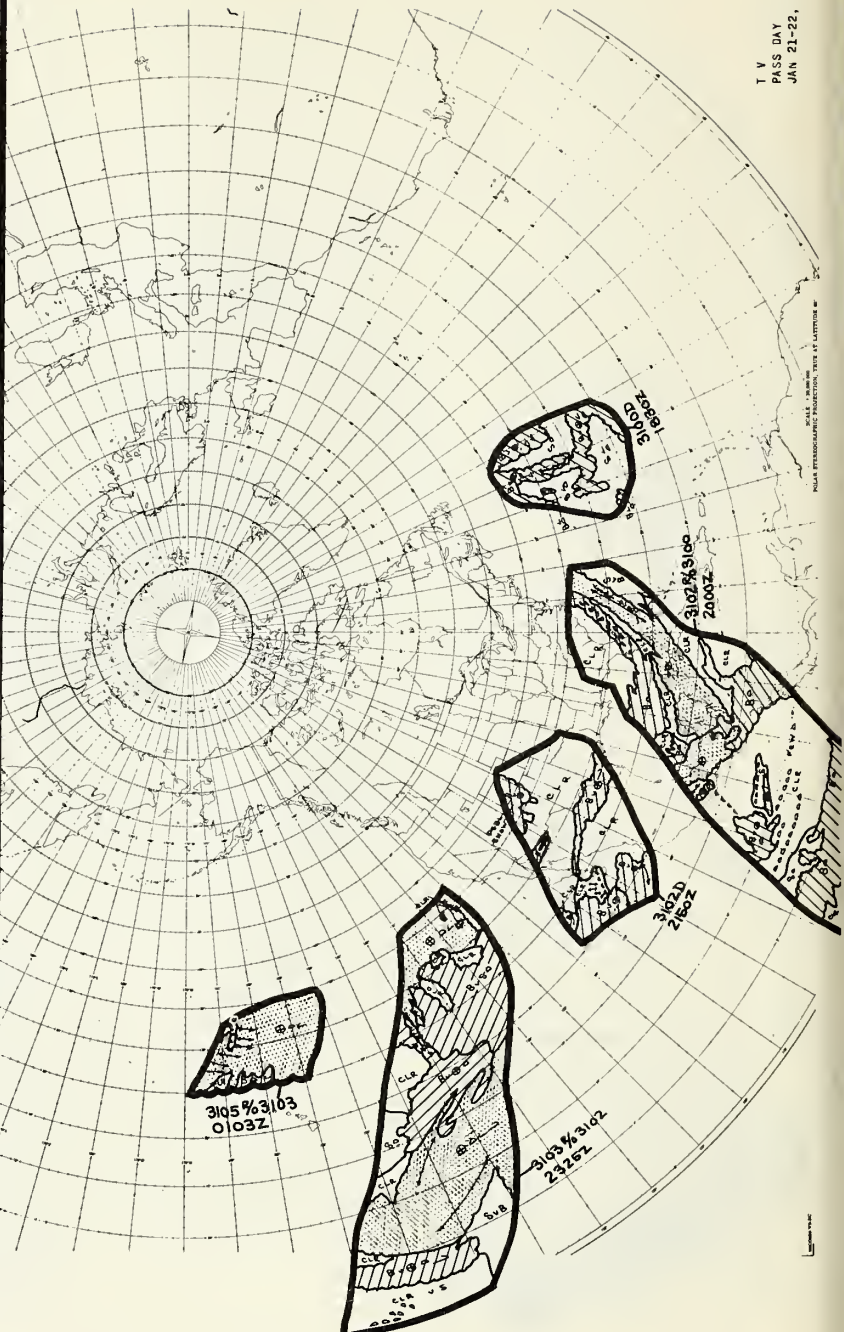
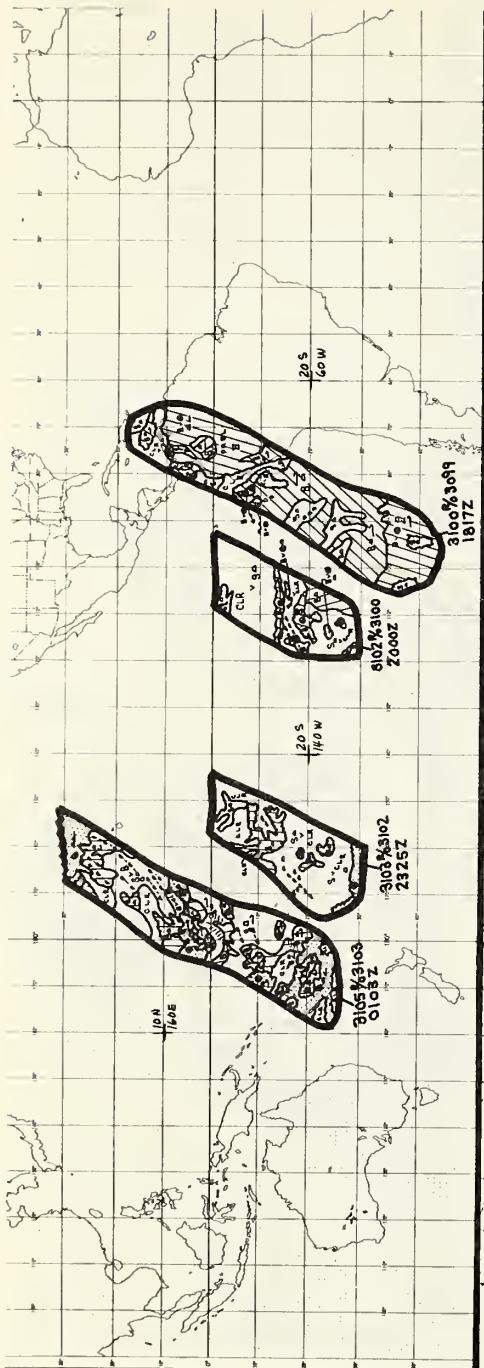


T V  
PASS DAY  
JAN 13-20, 1963

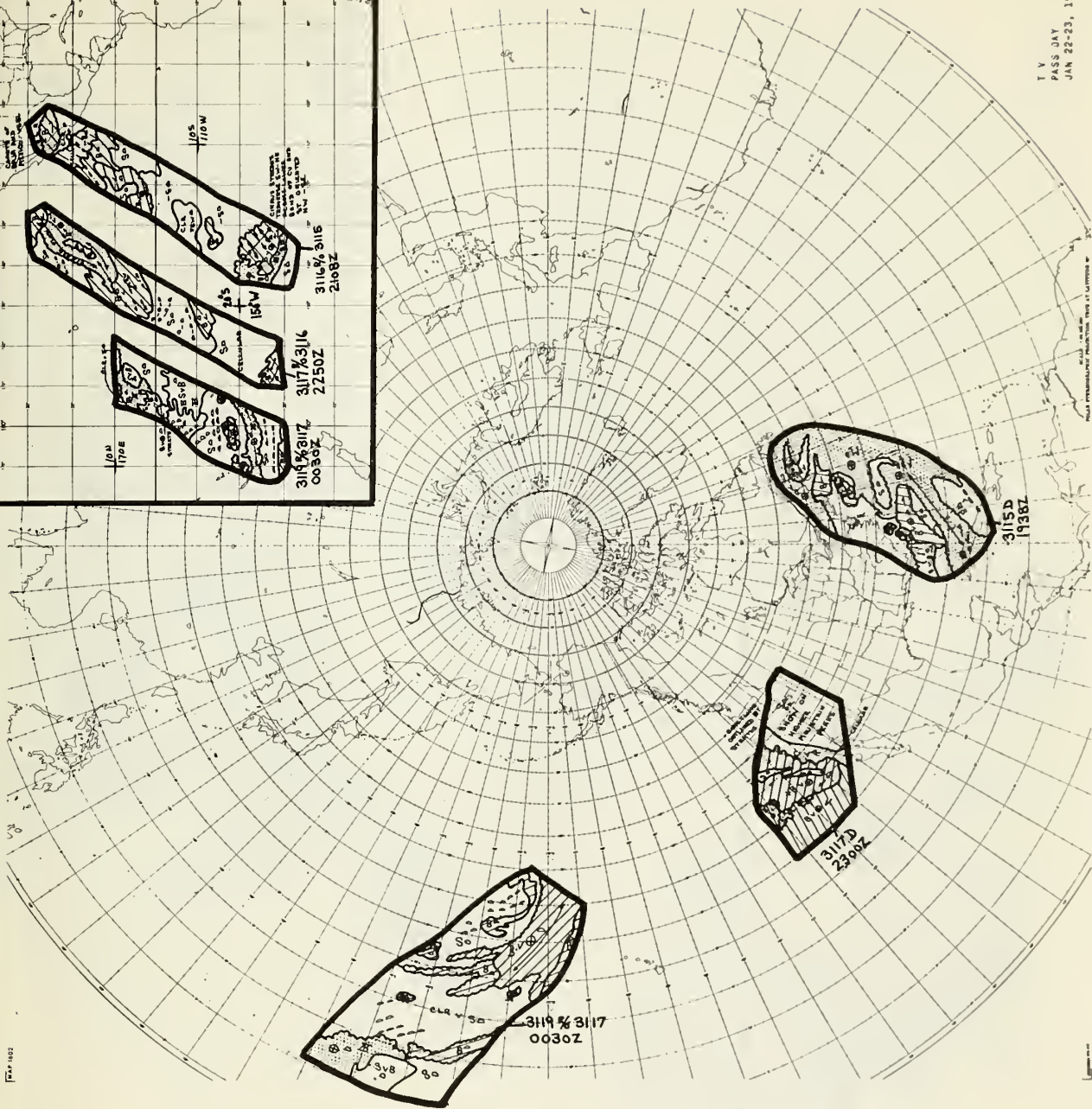
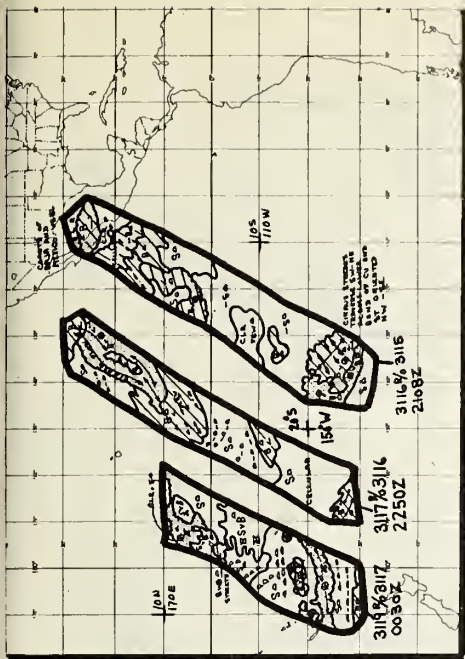
T V  
PASS DAYS  
JAN 20 & 21, 1963





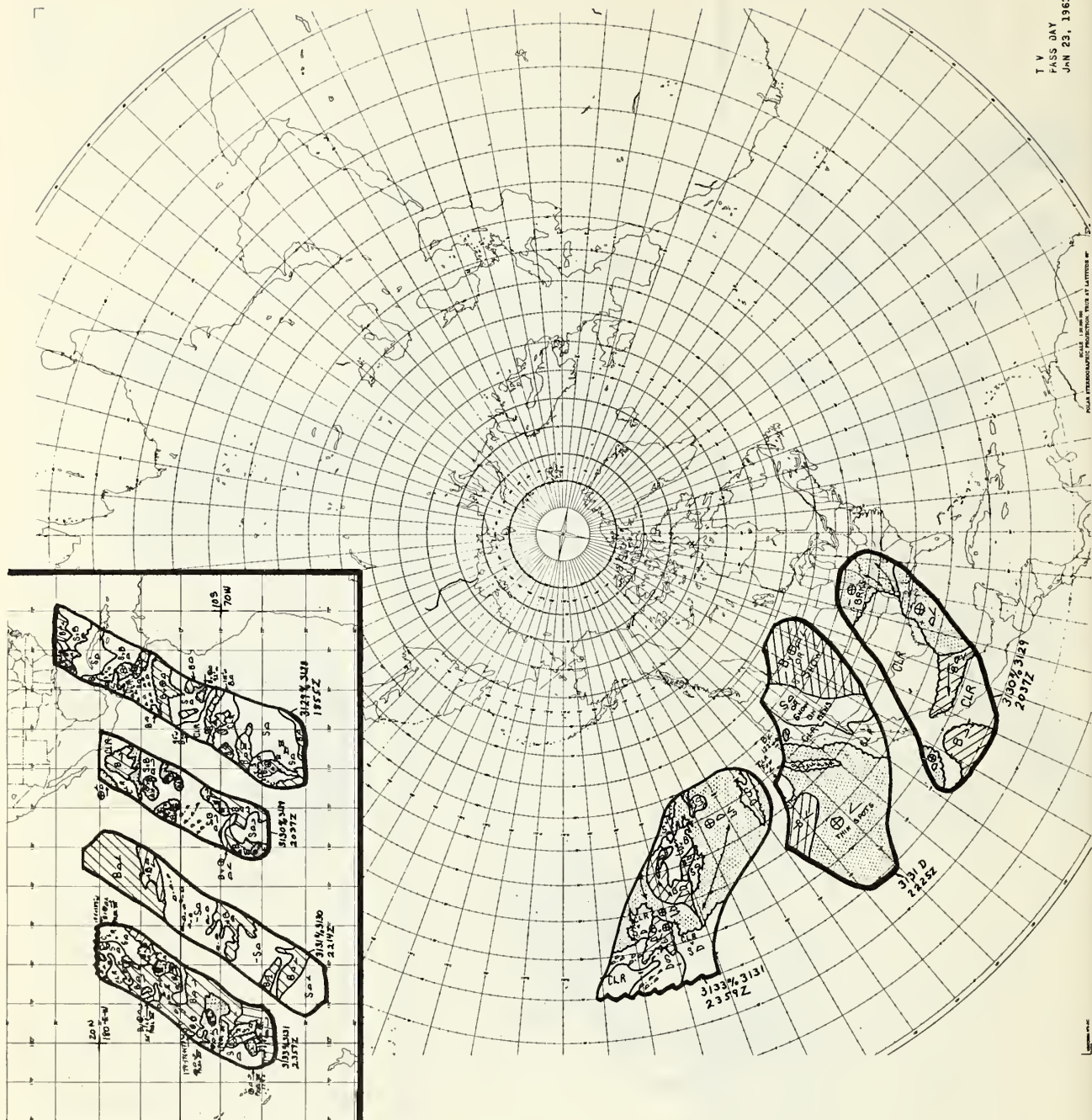


T V  
PASS DAY  
JAN 21-22, 1963



T V  
 PASS JAY  
 JAN 22-23, 1963

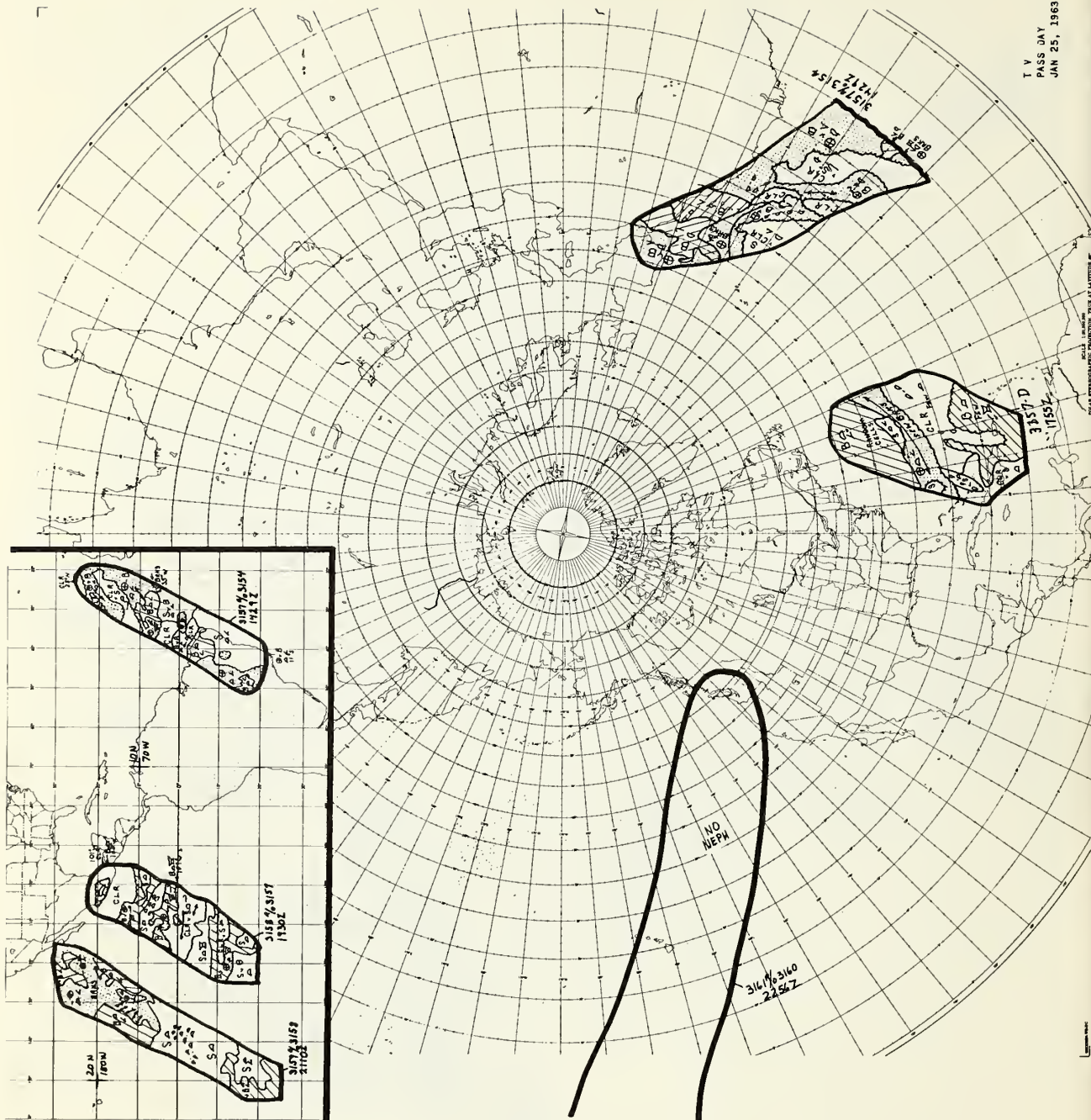




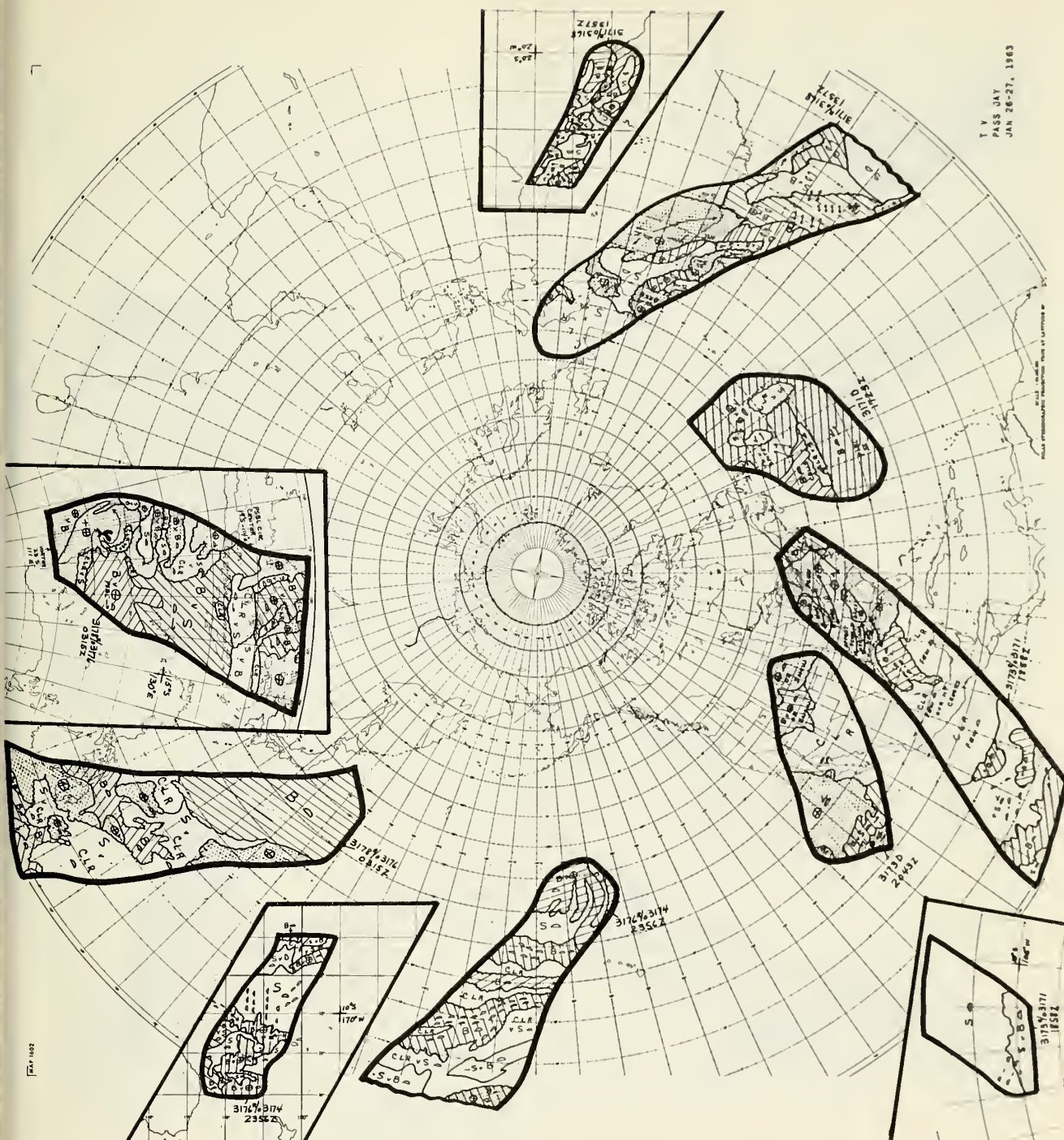
T V  
PASS DAY  
JUN 23, 1963







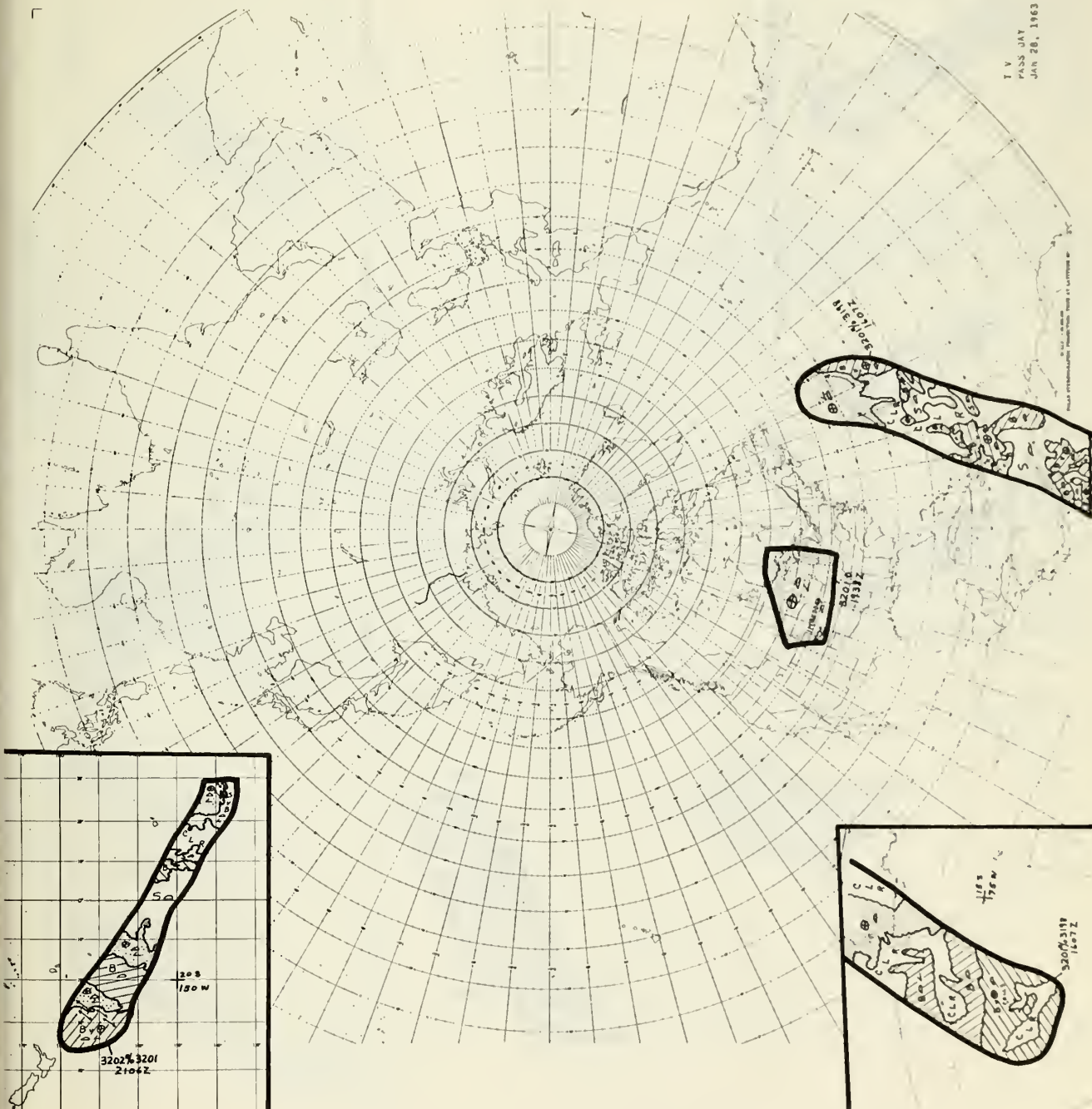
T V  
PASS DAY  
JAN 25, 1963

[illegible]

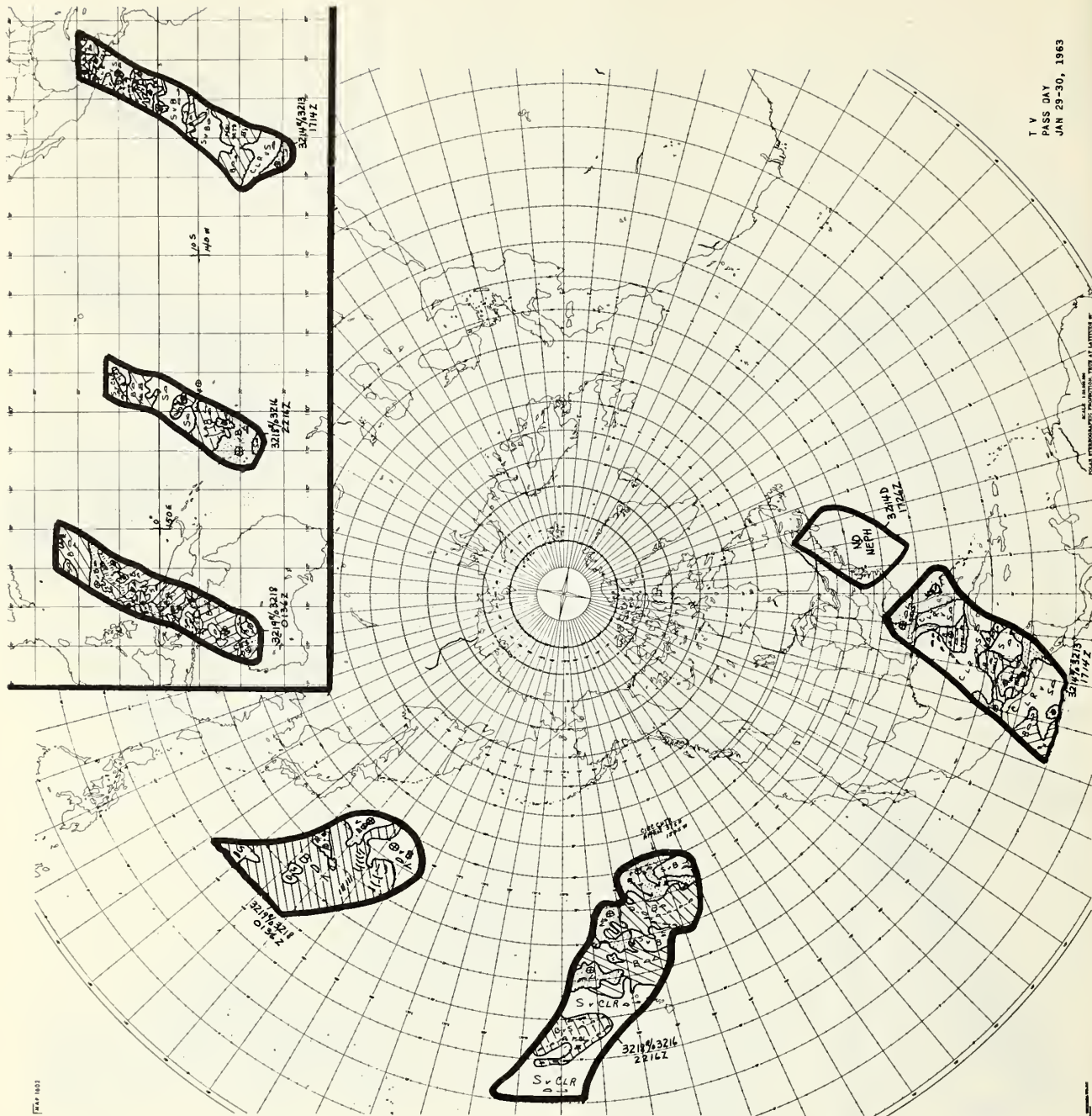




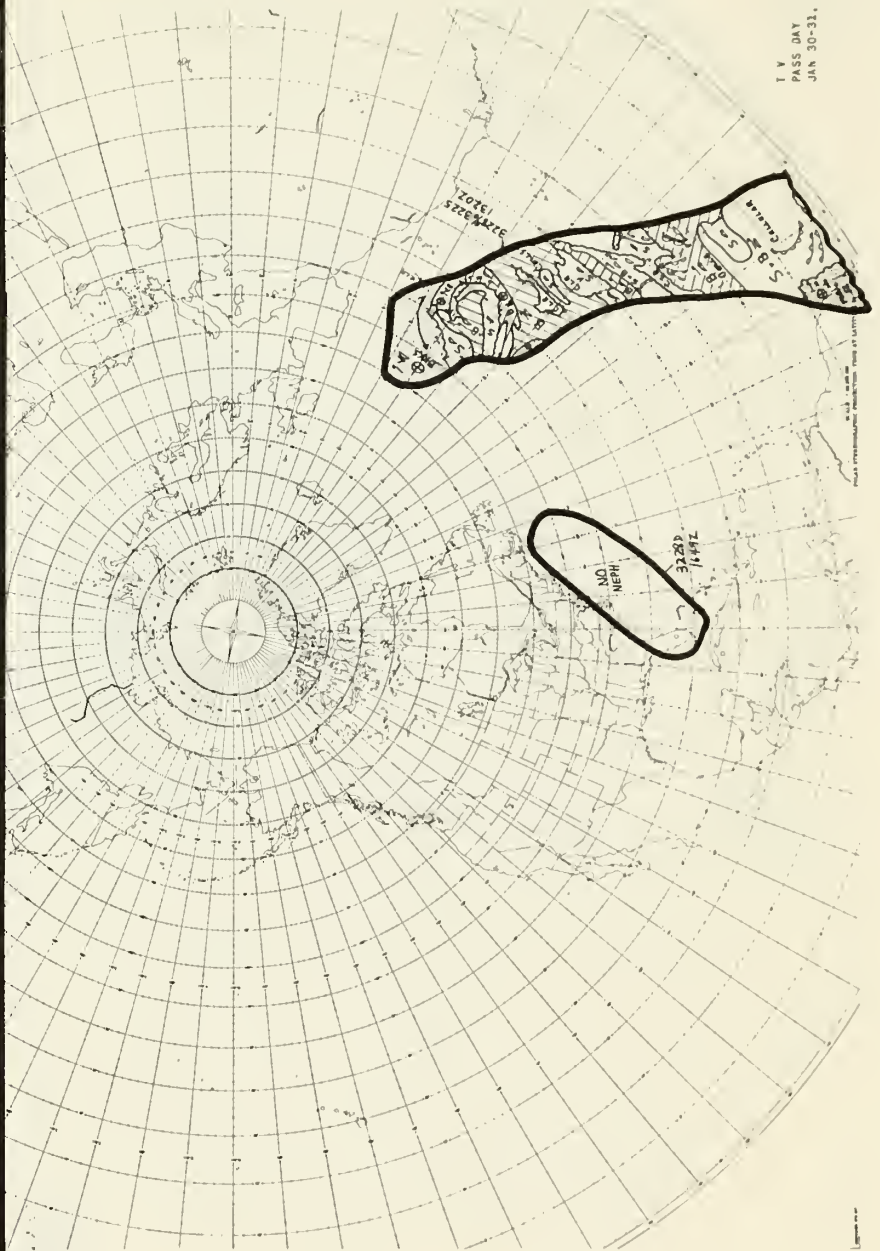
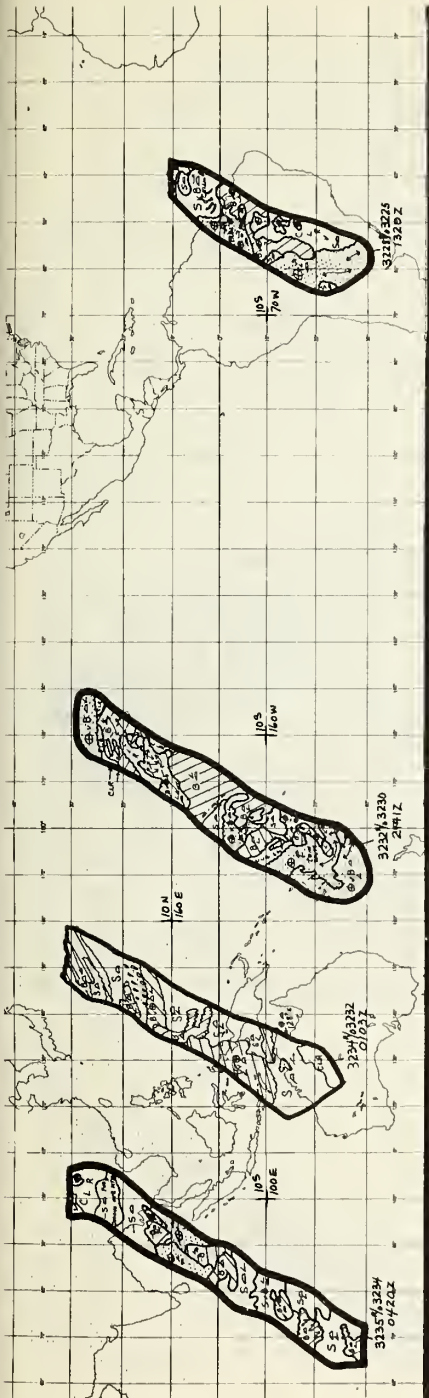
T V  
PASS JAY  
JAN 28, 1963





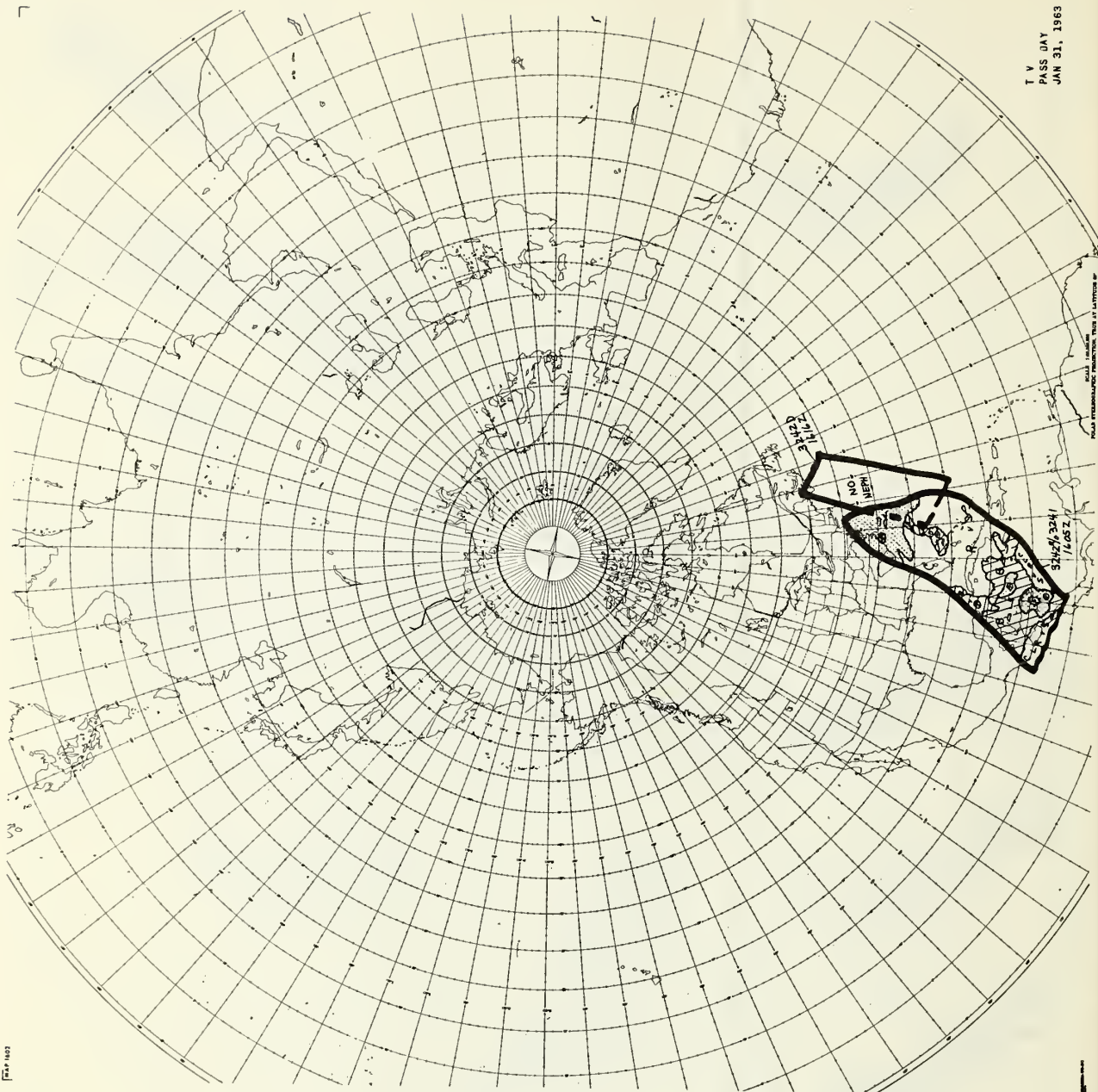


T V  
PASS DAY  
JAN 29-30, 1963

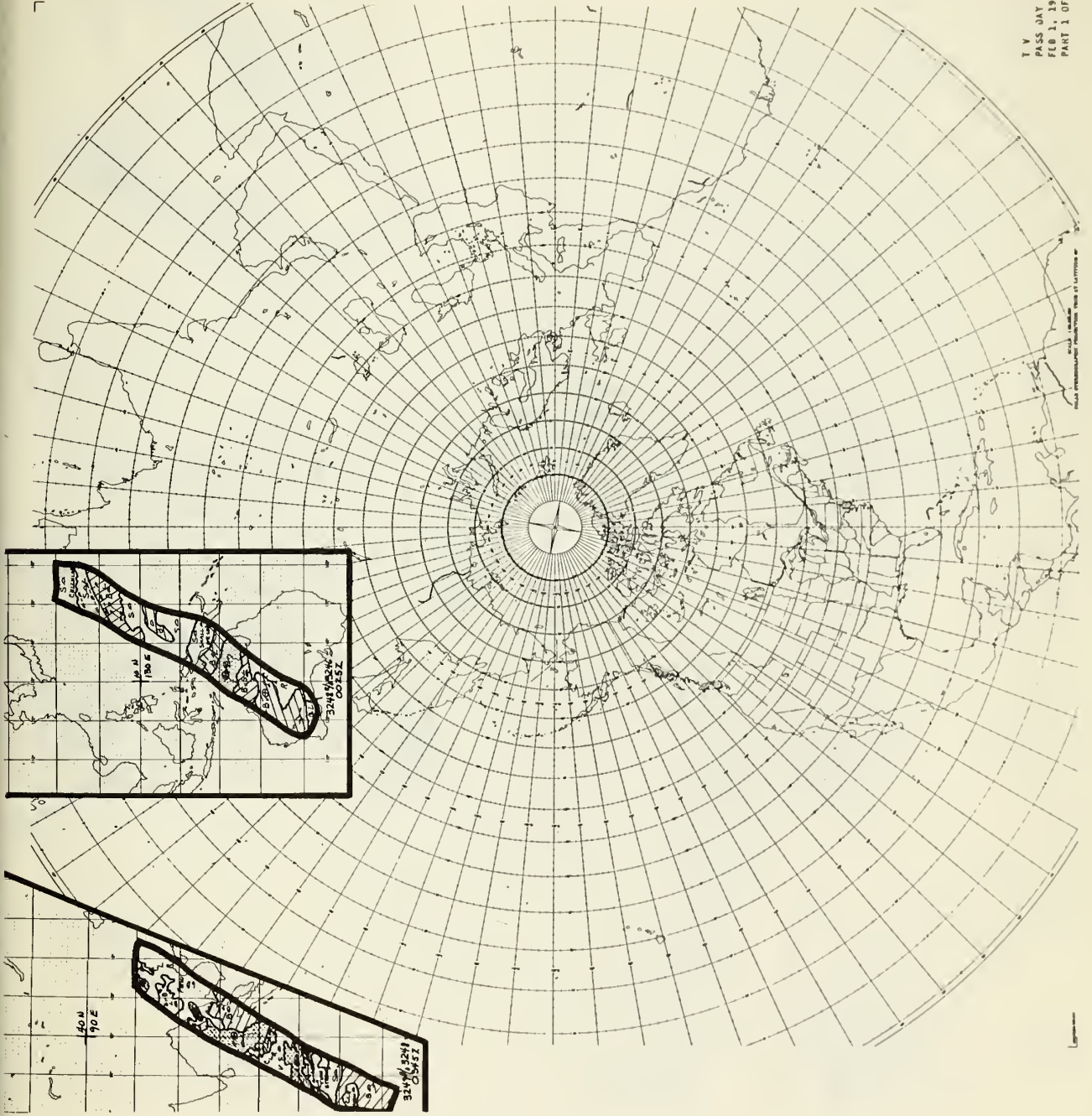


T V  
PASS DAY  
JAN 30-31, 1963

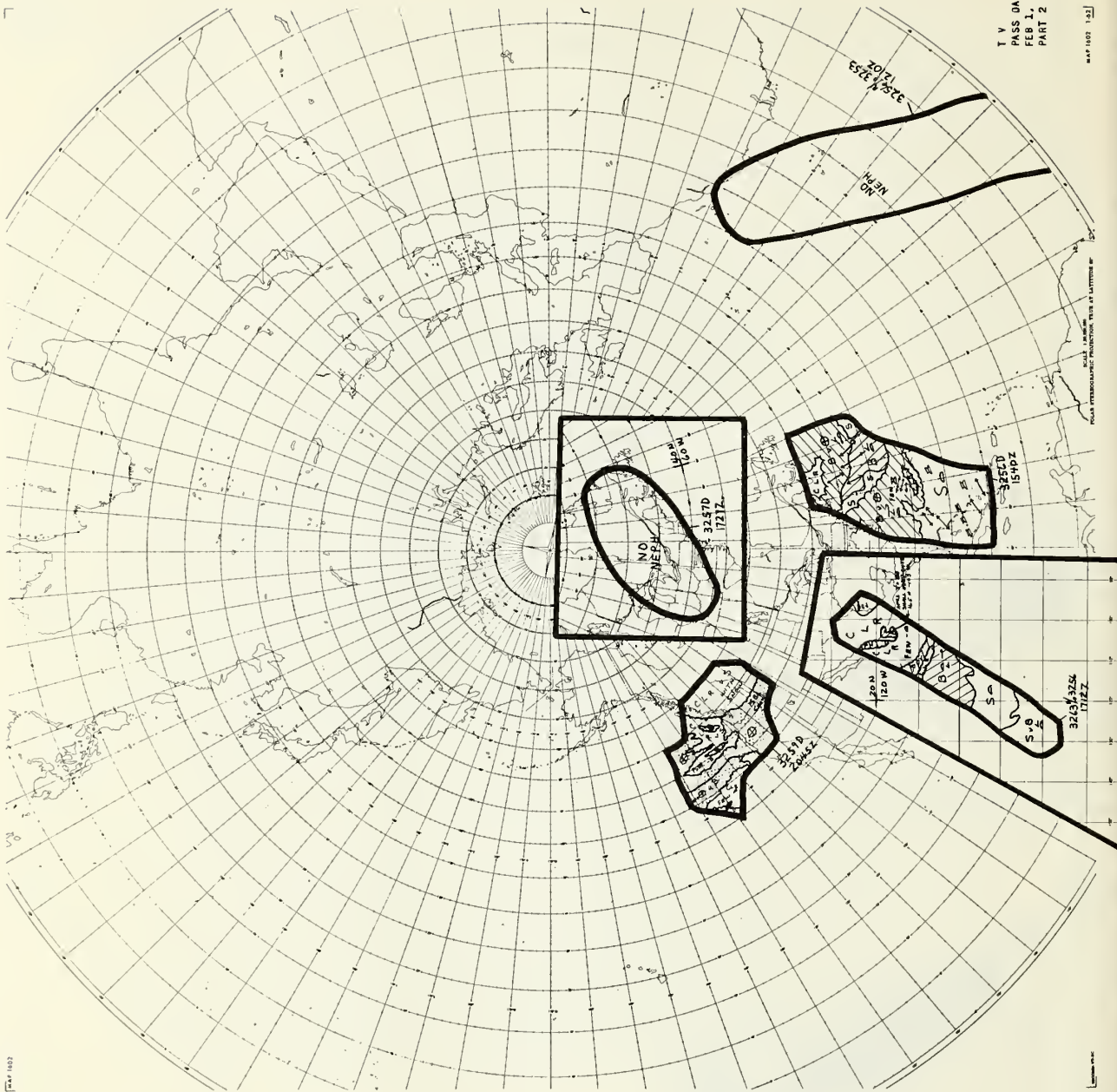




T V  
PASS DAY  
JAN 31, 1963

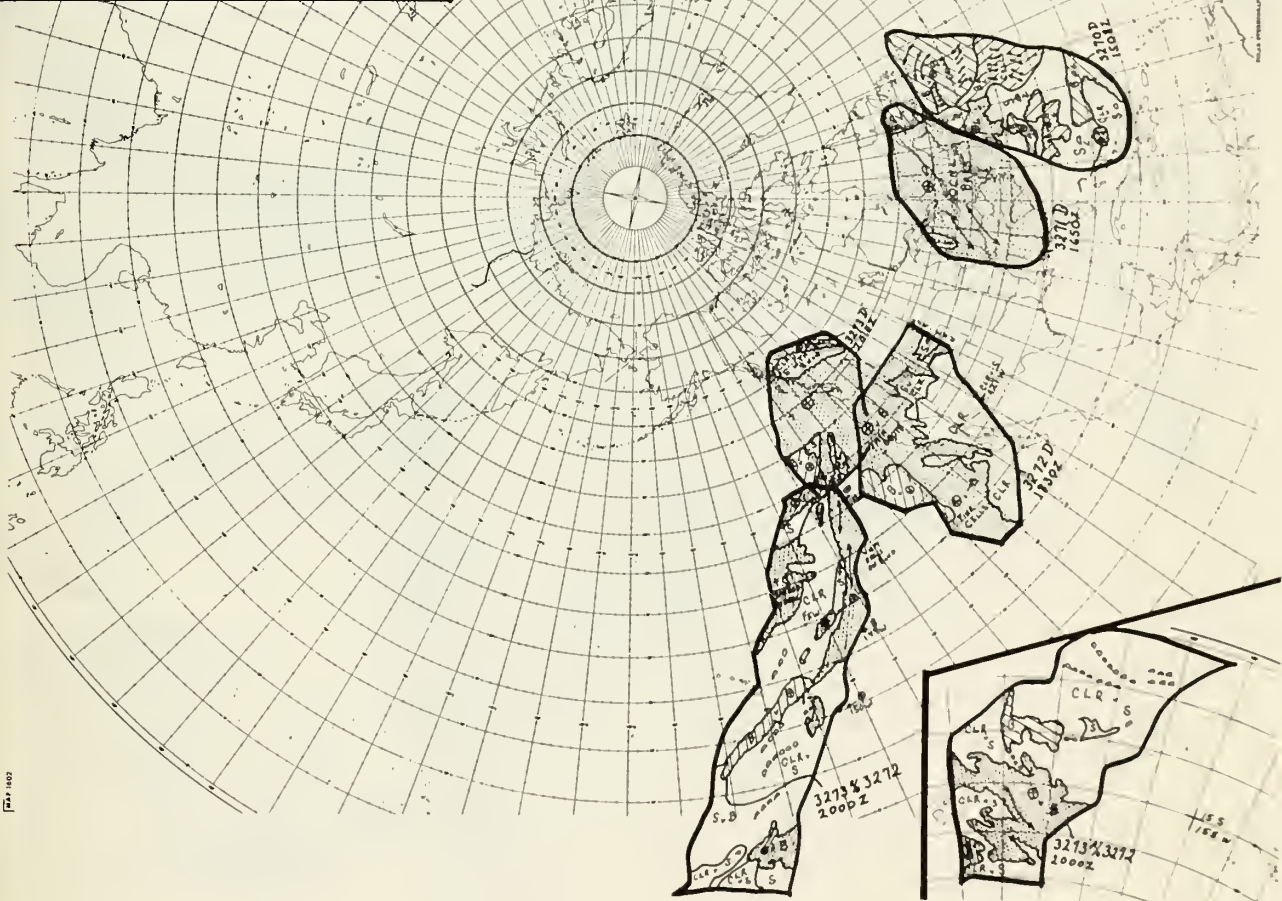
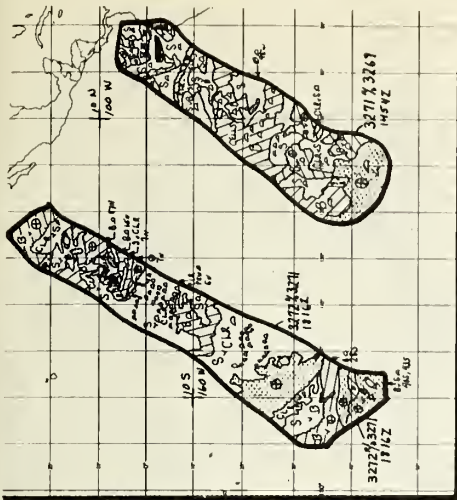






T V  
PASS DAY  
FEB 1, 1963  
PART 2 OF 2

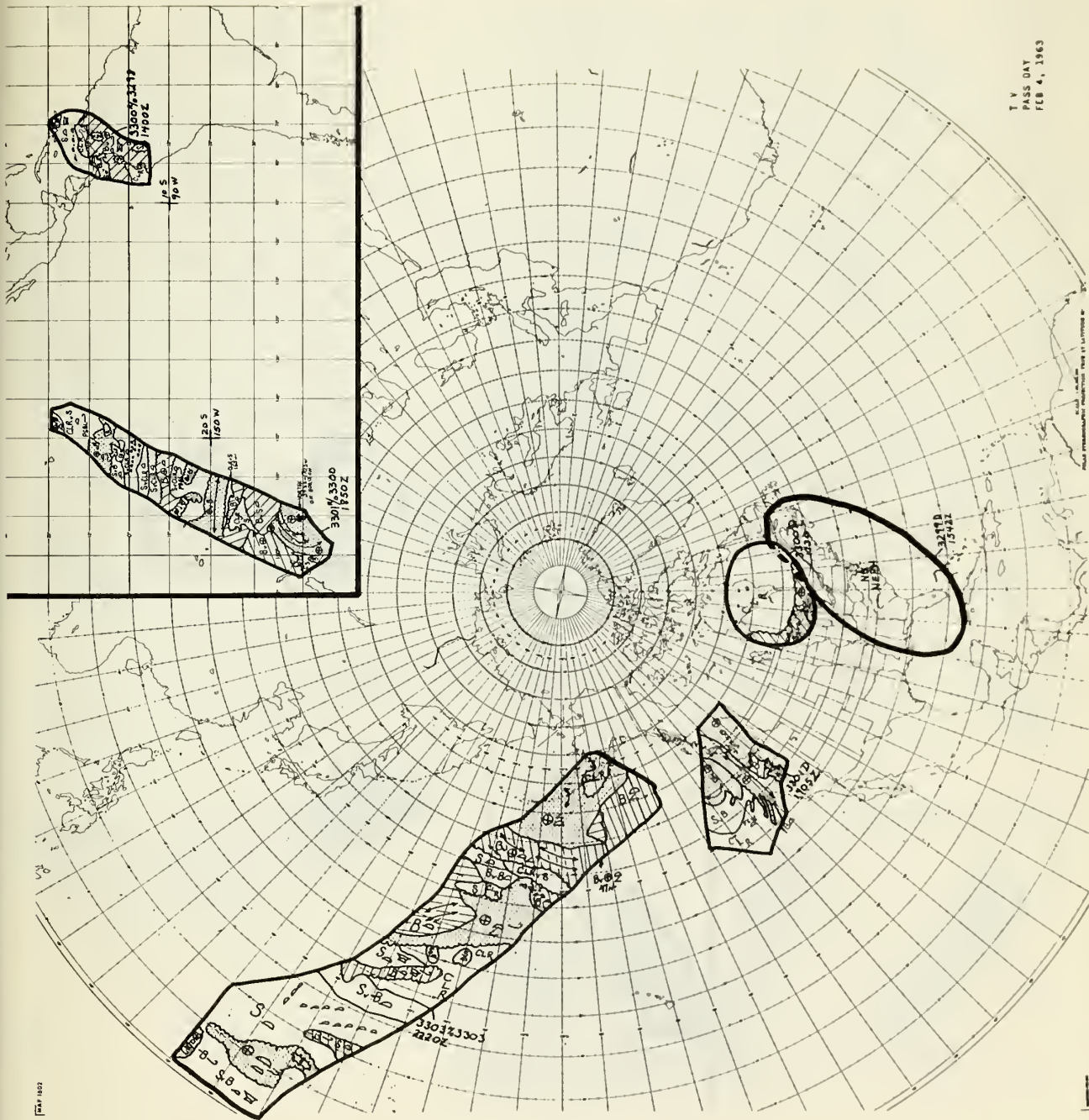
MAP 1003 1.02



T V  
PASS DAY  
FEB 2, 1963

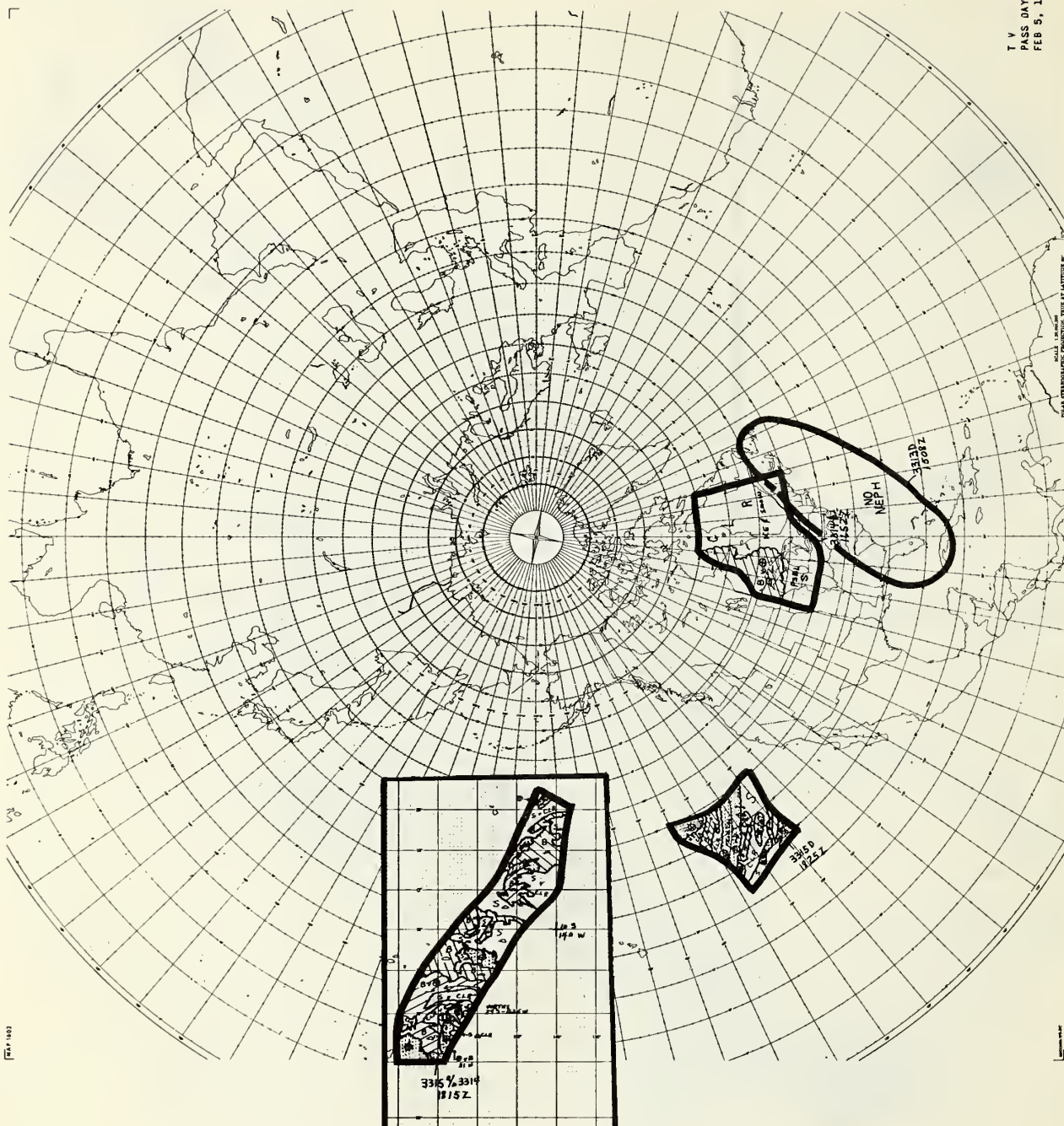






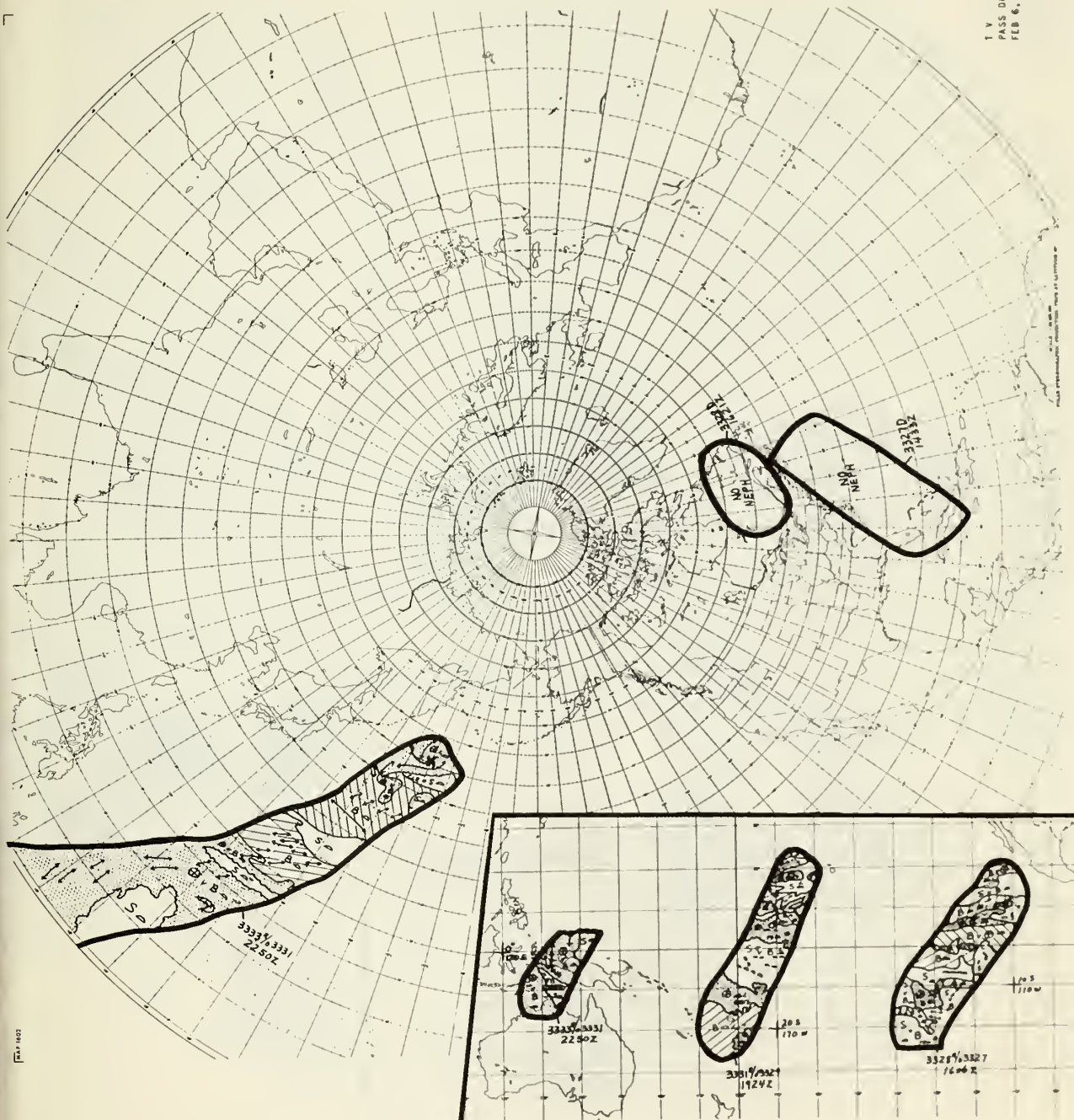
T V  
PASS DAY  
FEB 4, 1963



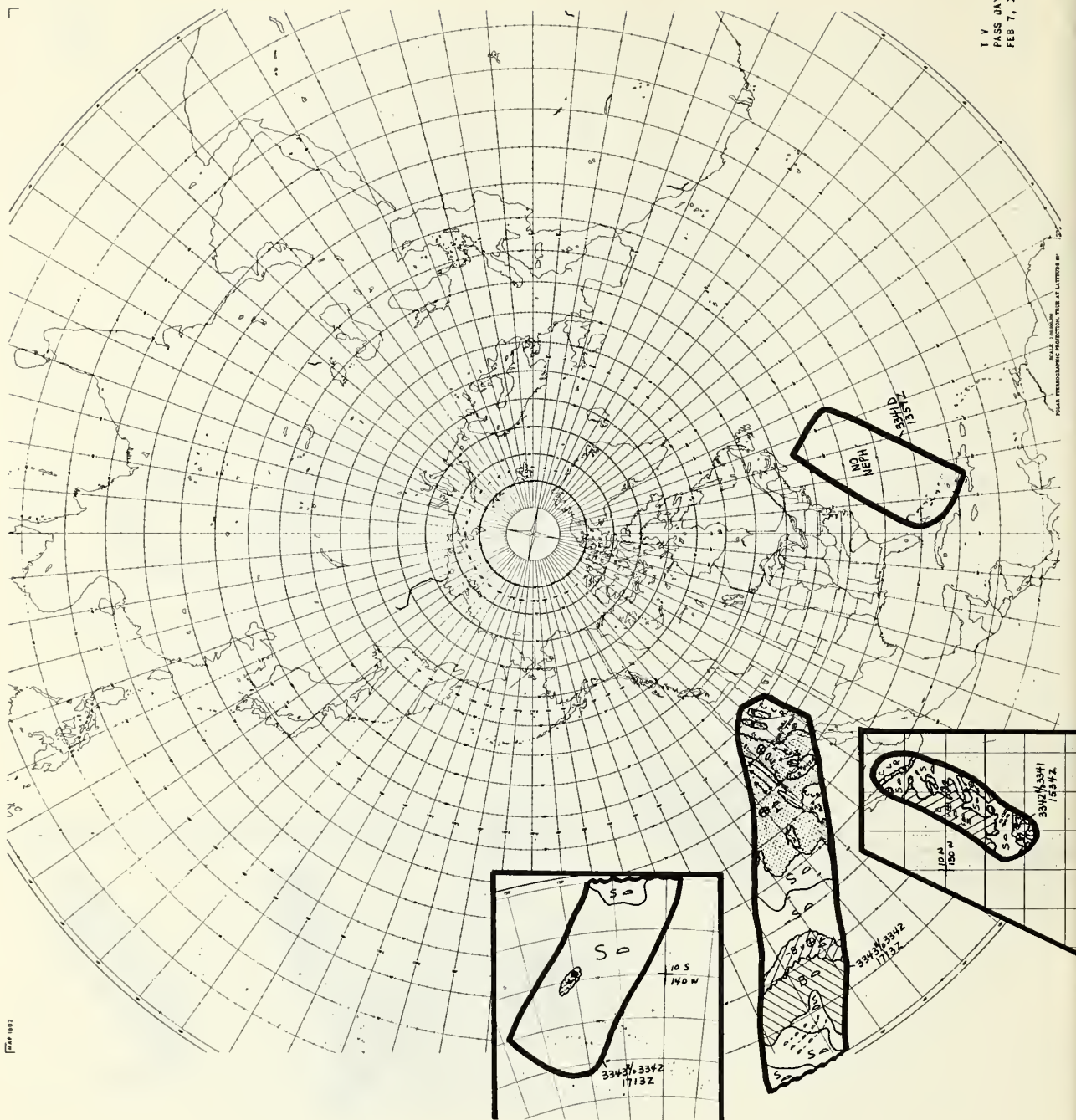


T V  
PASS DAY  
FEB 5, 1963

1 V  
PASS DAY  
FEB 6, 1963





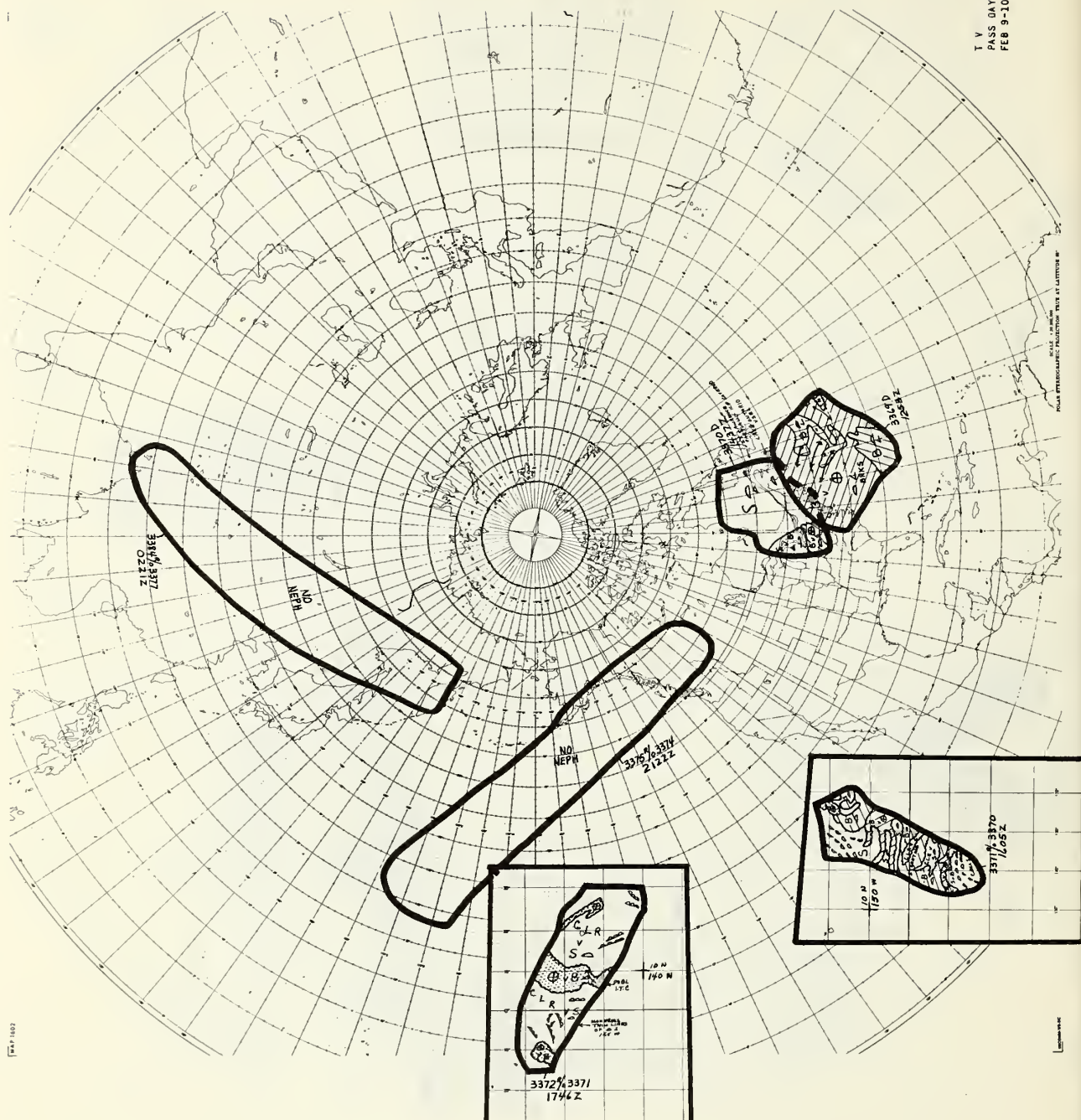


T V  
PASS JAY  
FEB 7, 1963

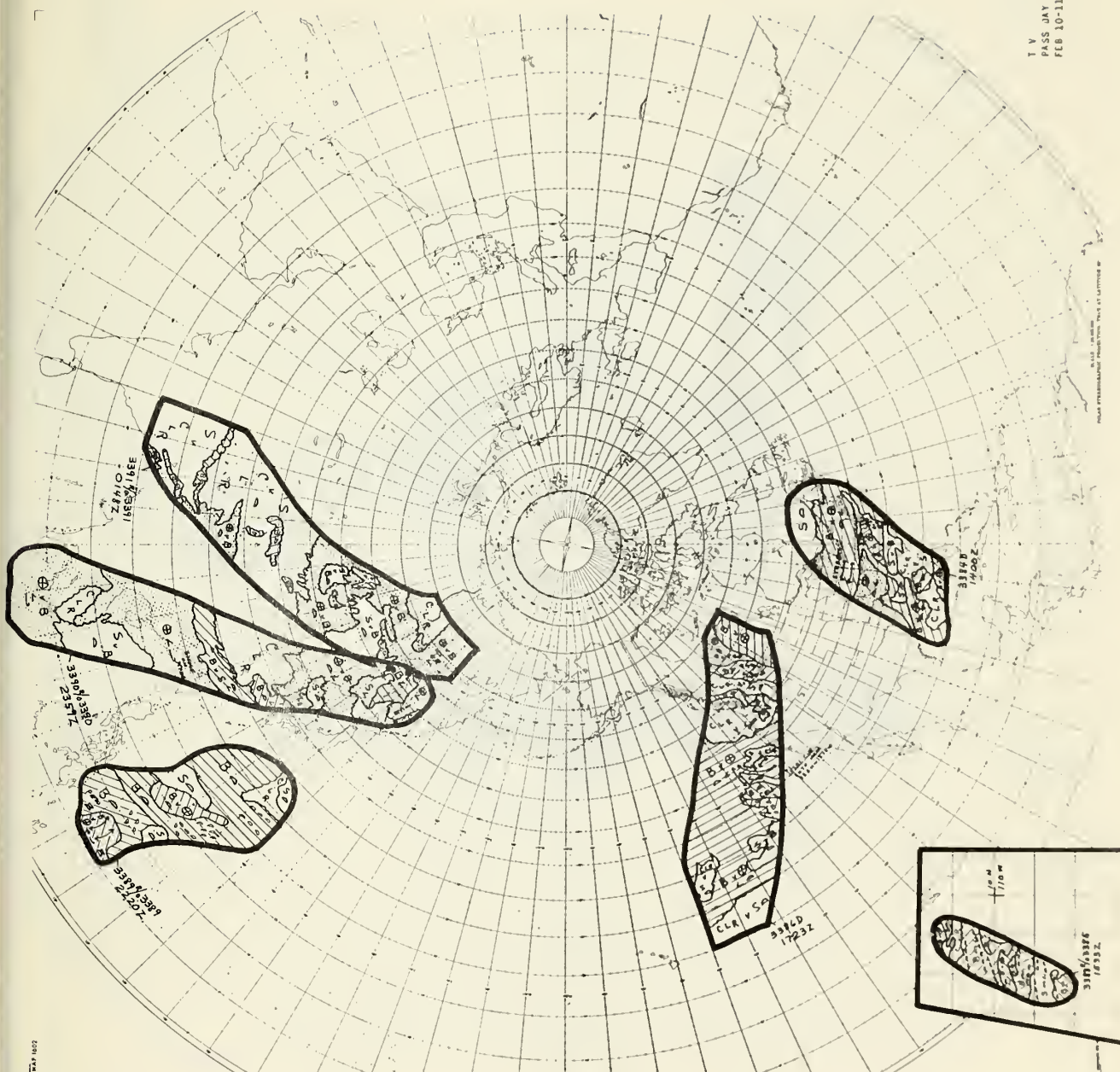




SCALE = 100 miles



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Journal of Internal Medicine 247: 105-112



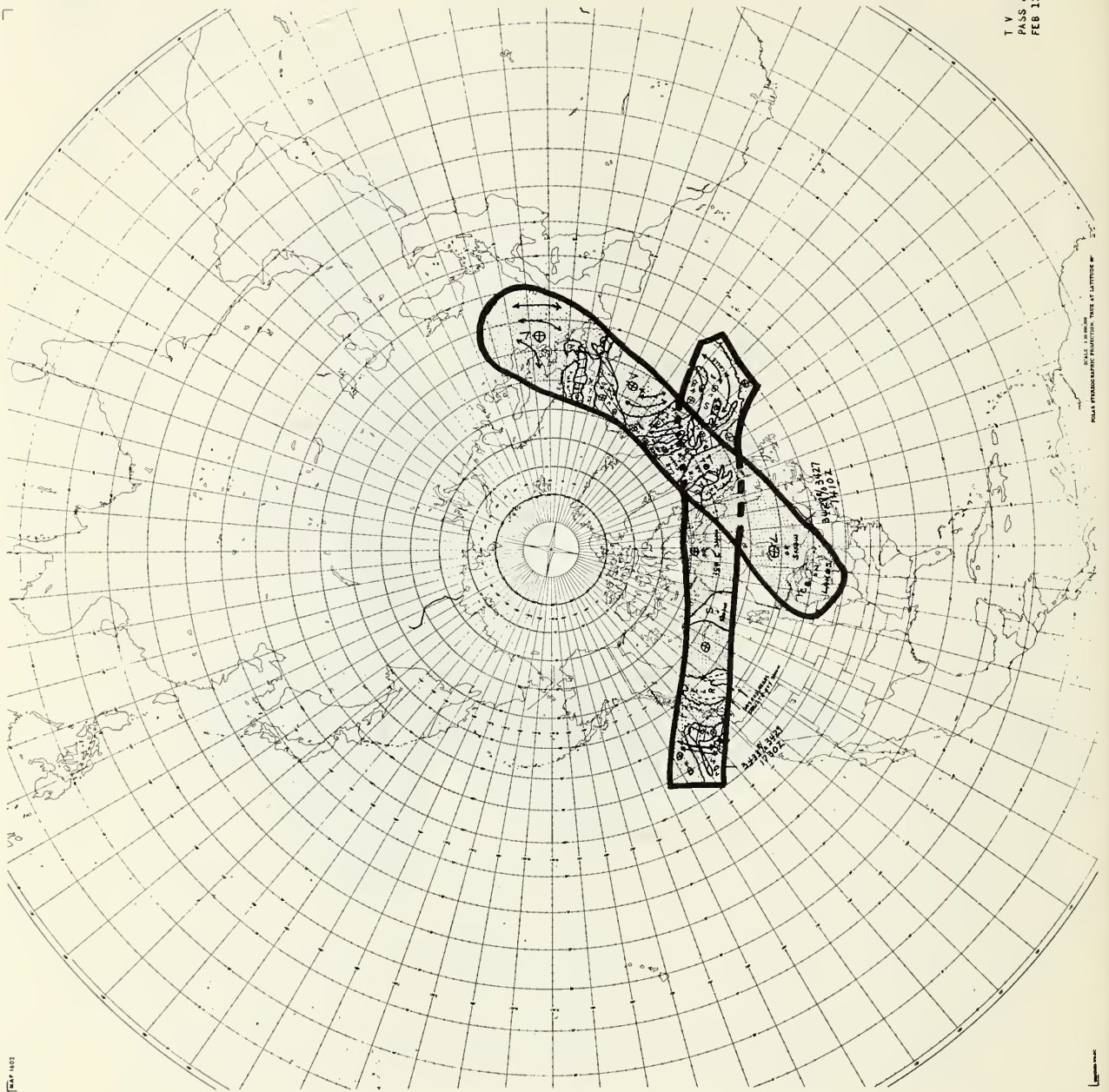


SCALE 1 cm. = 1000 ft.

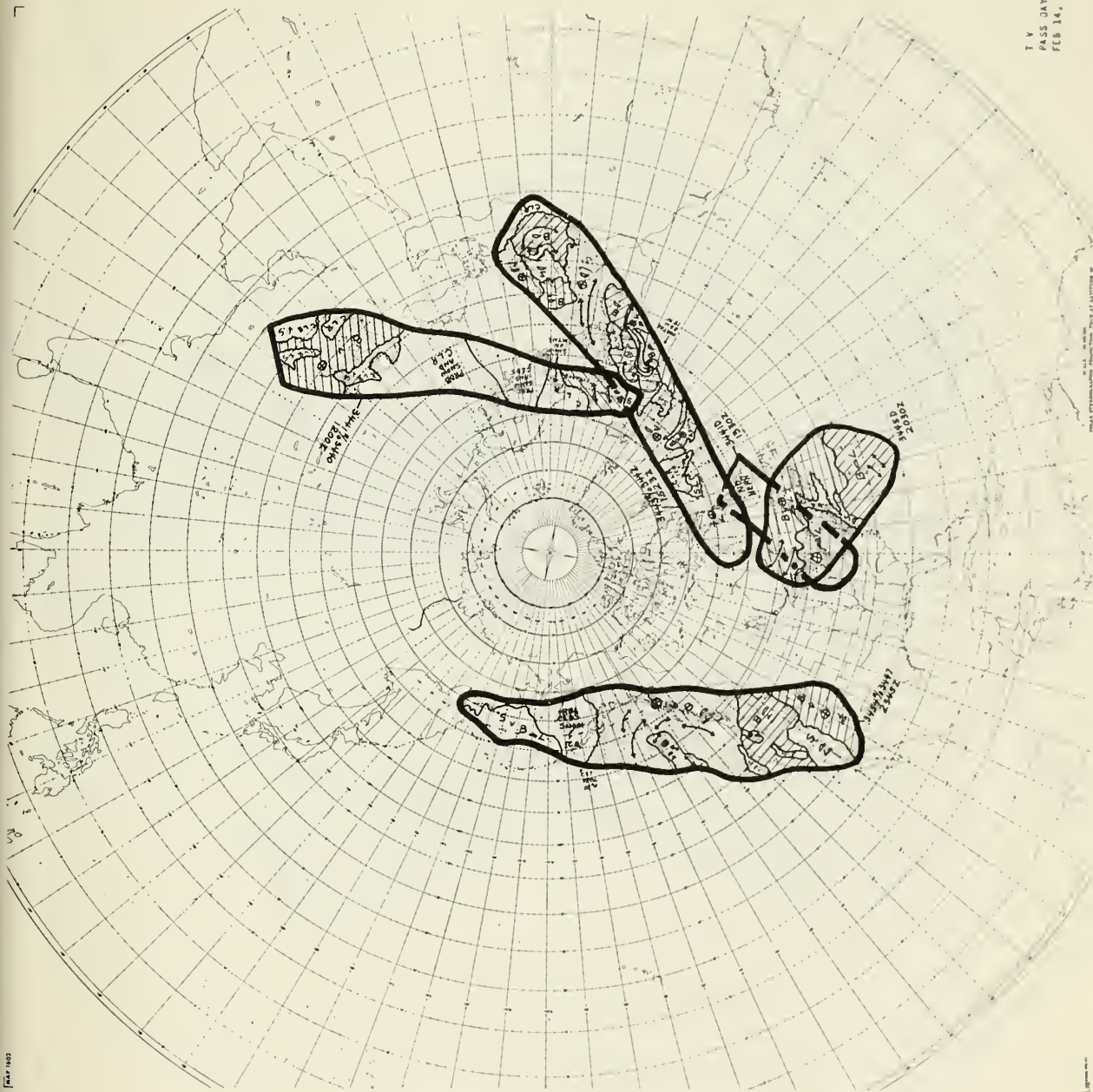






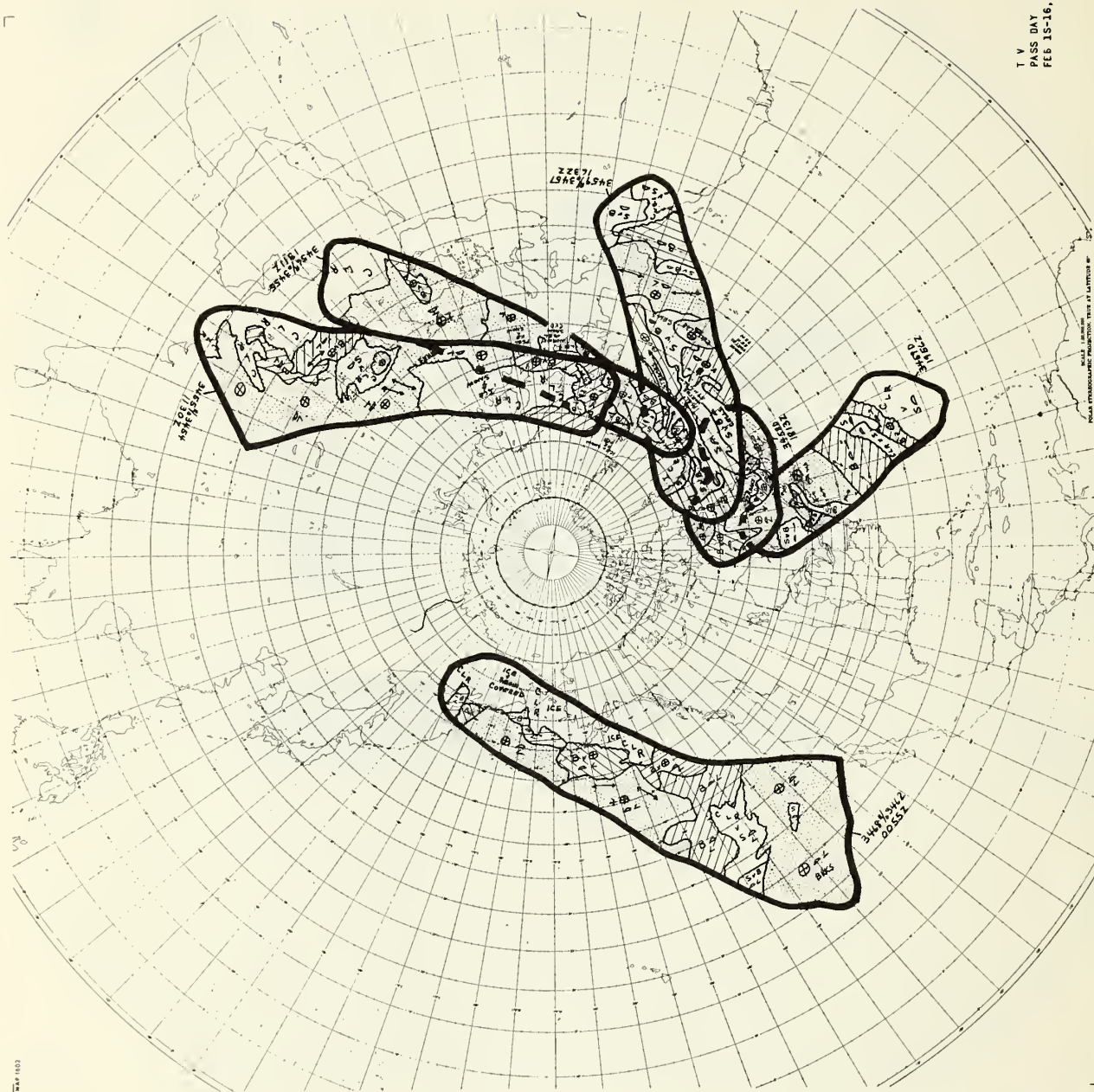


MAP 1002





MA 1602

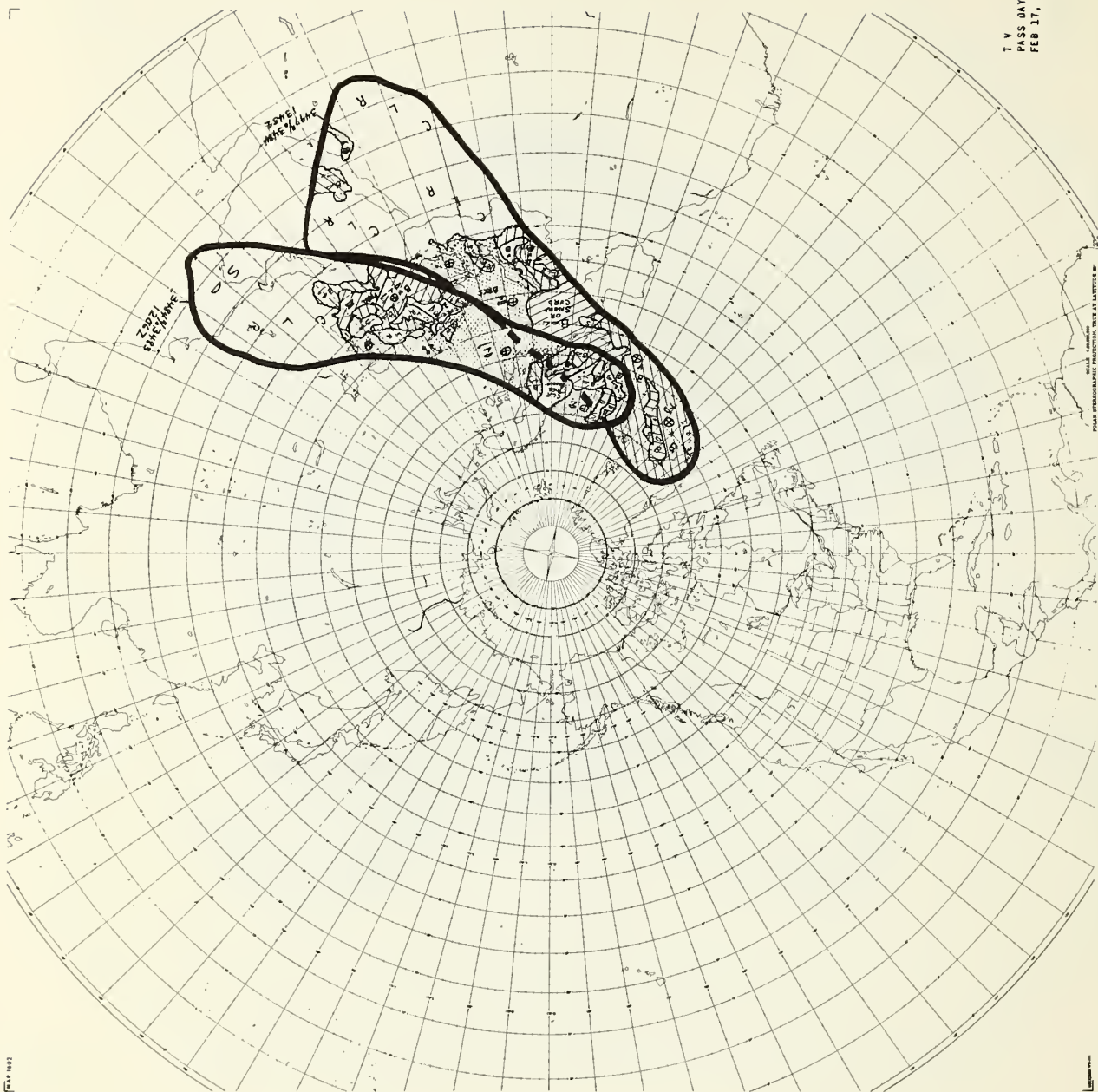


SCALE 1:20,000,000

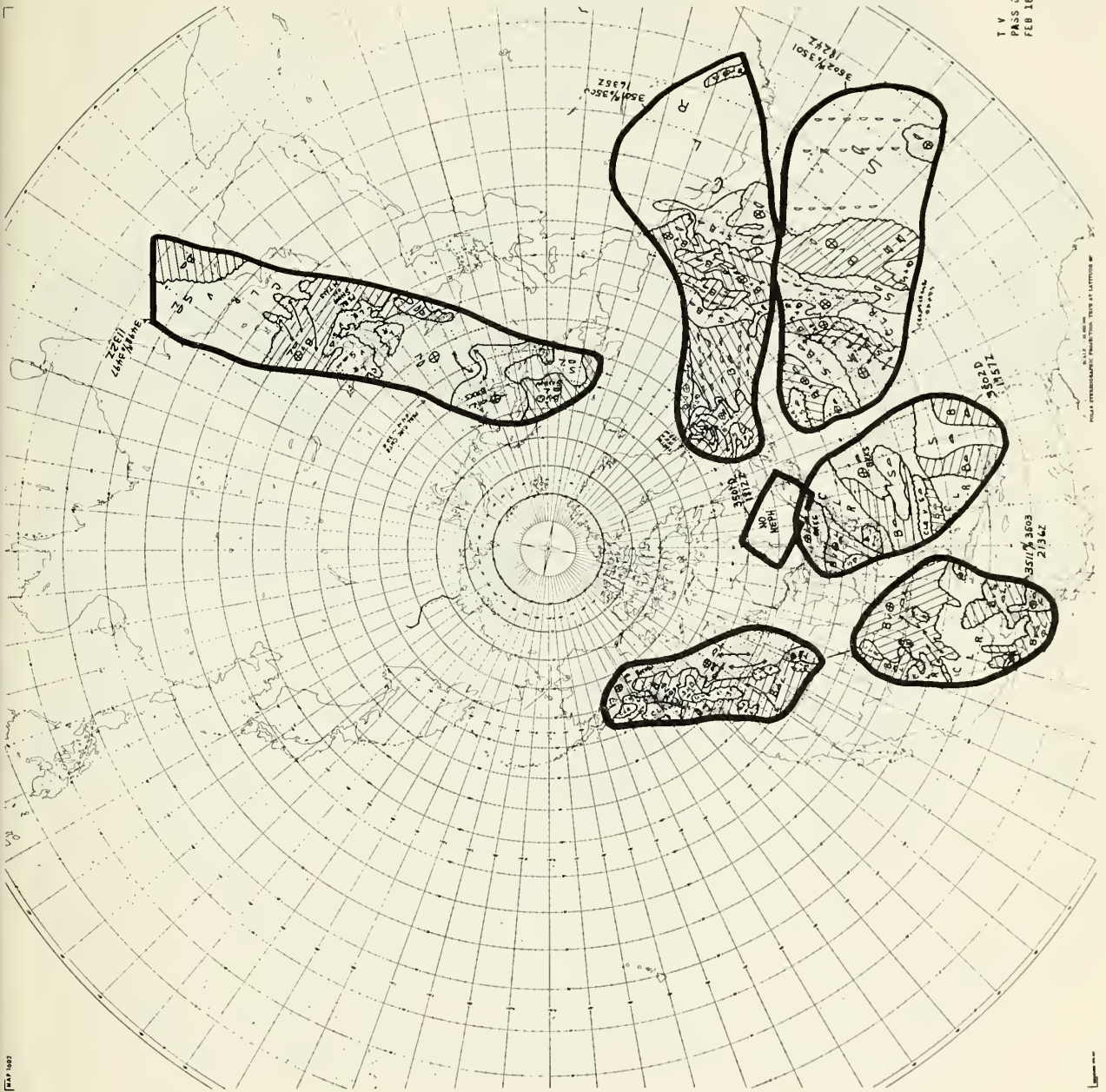


T V  
PASS DAY  
FEB 16-17, 1963





T V  
PASS DAY  
FEB 17, 1963







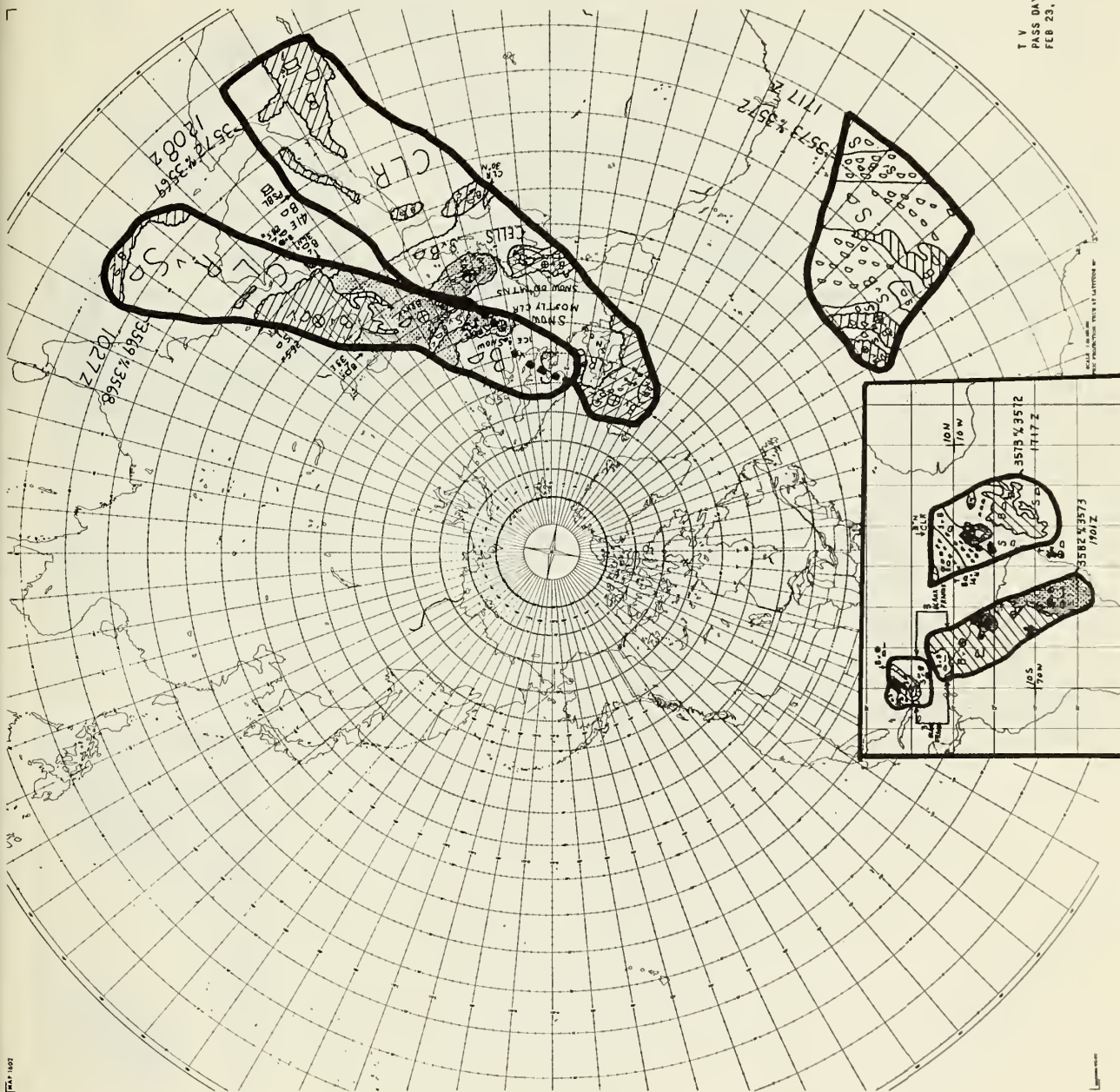
T V  
 PASS DAY  
 FEB 19, 1963





SCALE 1 cm (0.4 in)

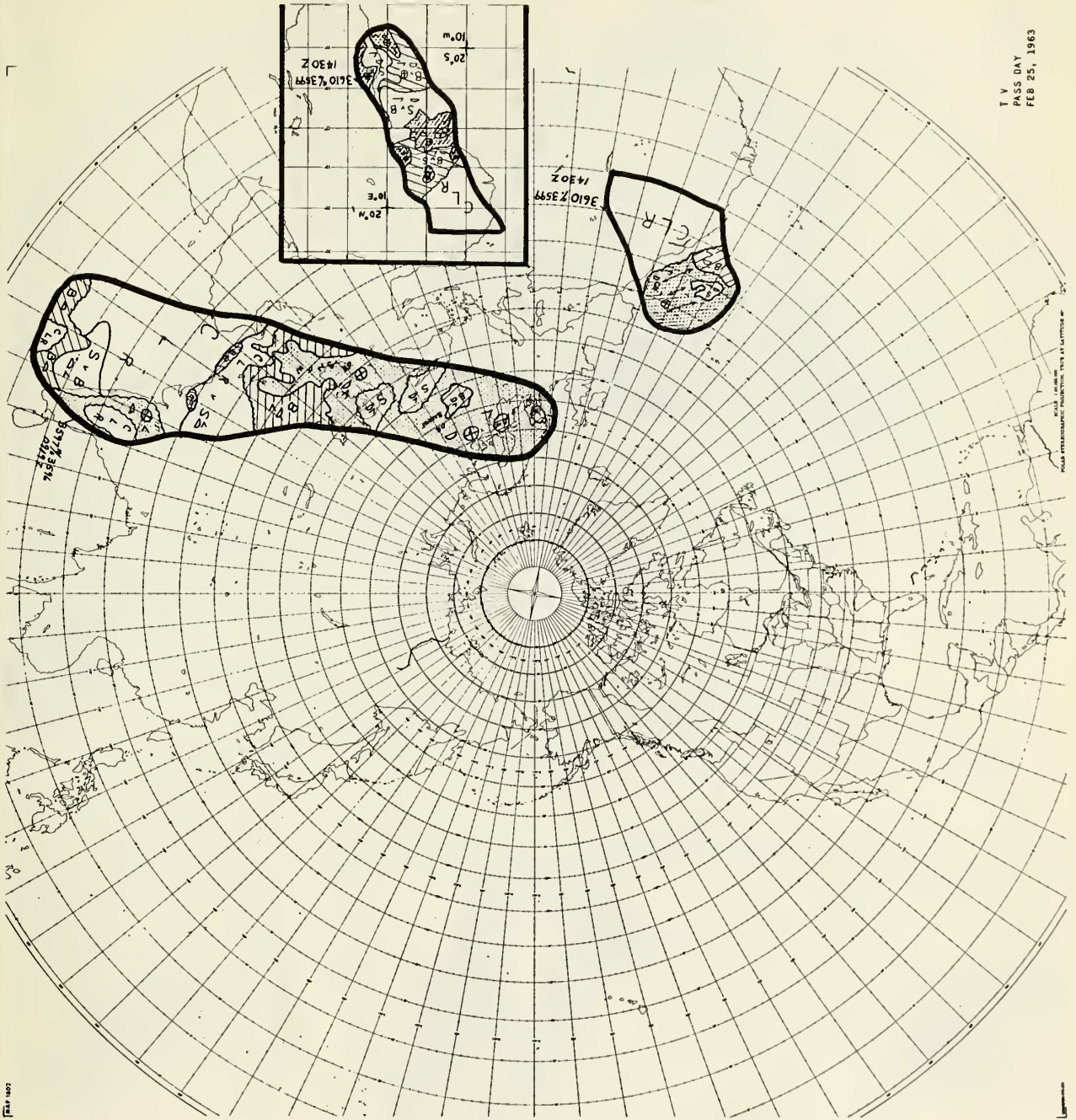




T V  
PASS DAY  
FEB 23, 1963







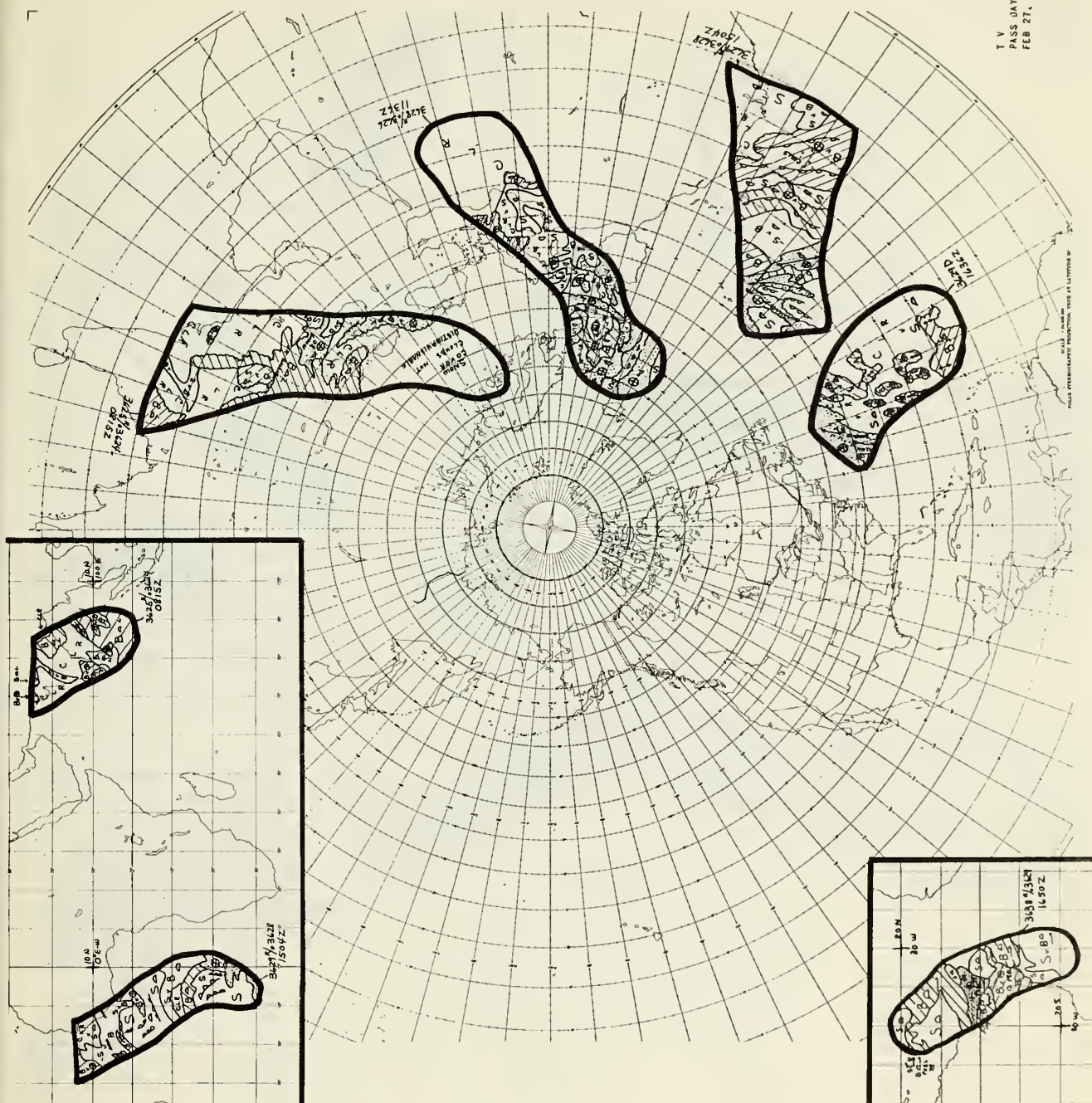
T V  
PASS DAY  
FEB 25, 1963



SCALE 1 IN. = 100 YDS.



SCALE: 1 cm = 100 m

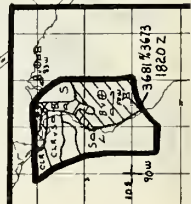








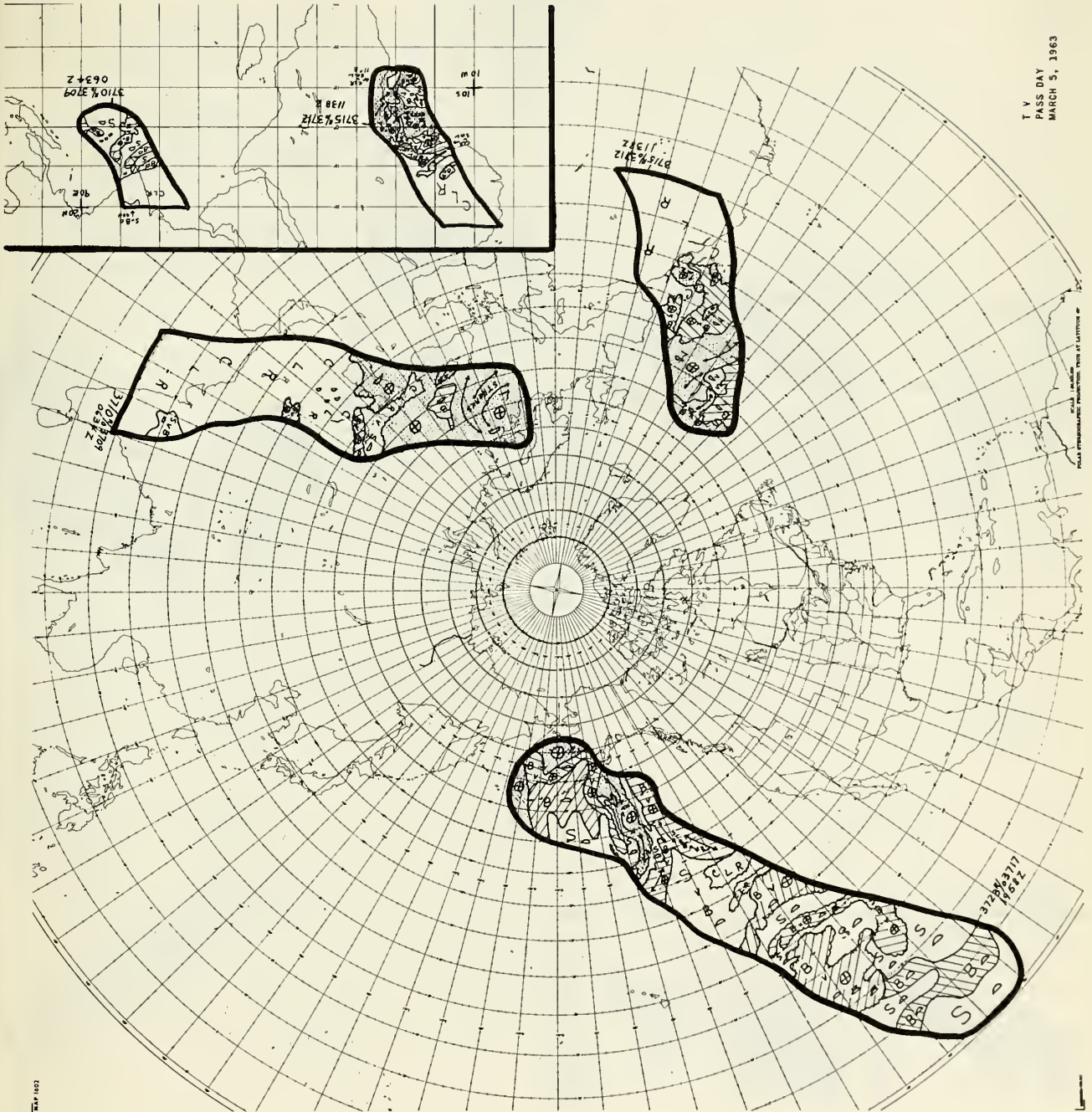










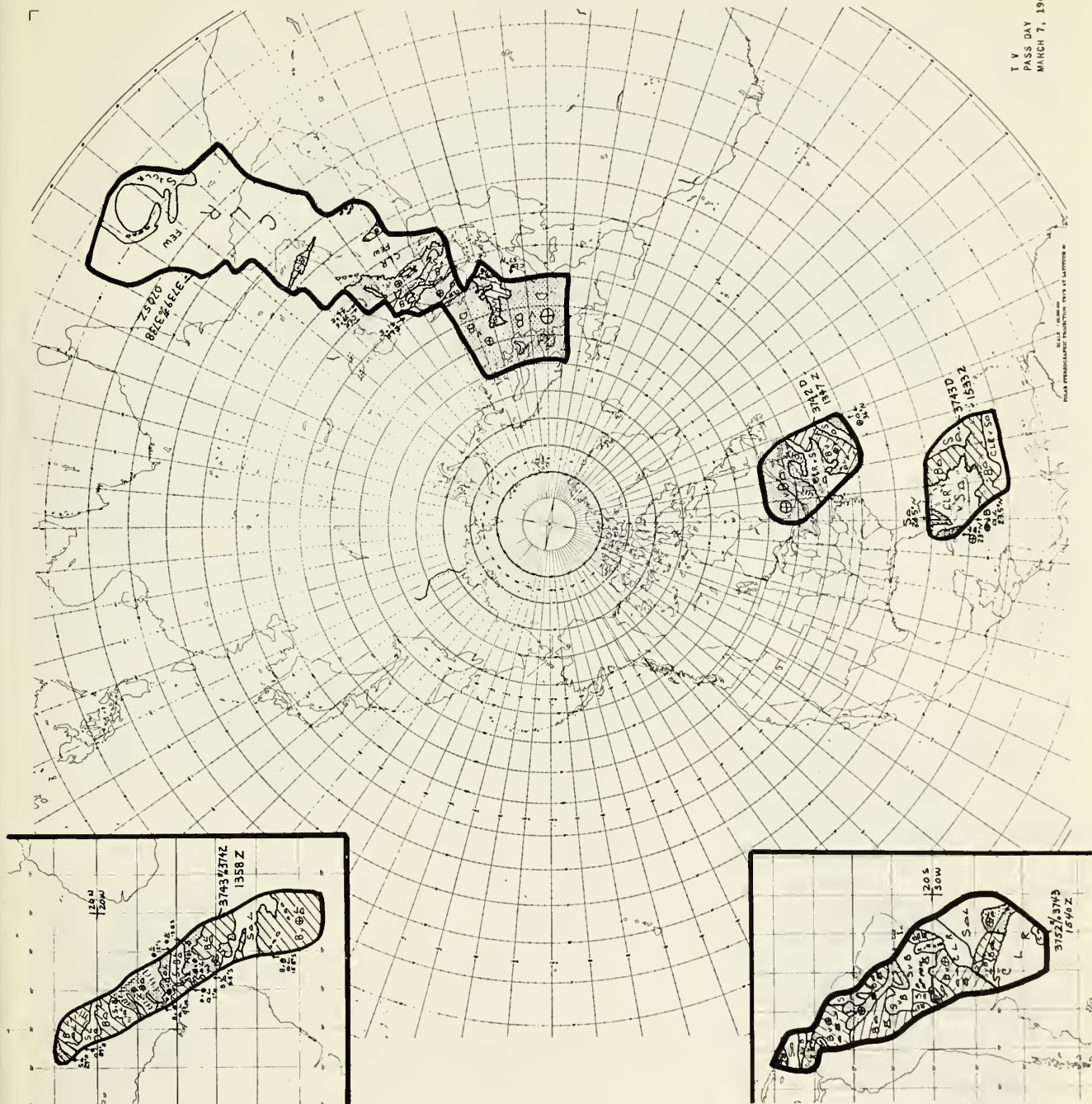


T V  
PASS DAY  
MARCH 5, 1963





T V  
PASS DAY  
MARCH 7, 1963





SCALE 1 IN. = 1000 YDS.  
POLAR STEREOGRAPHIC PROJECTION TRUE AT LATITUDE 60°

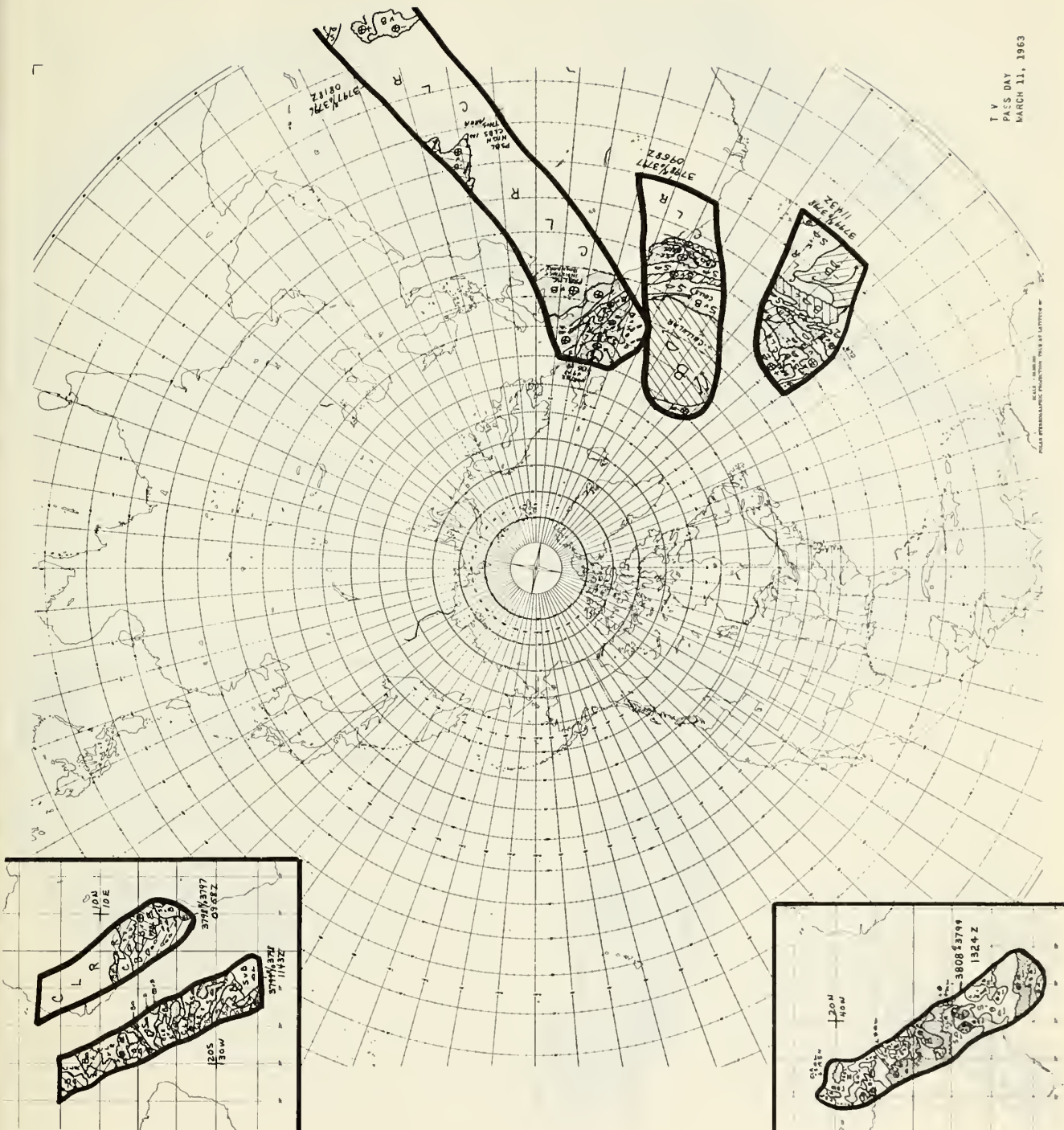


SCALE 1000000



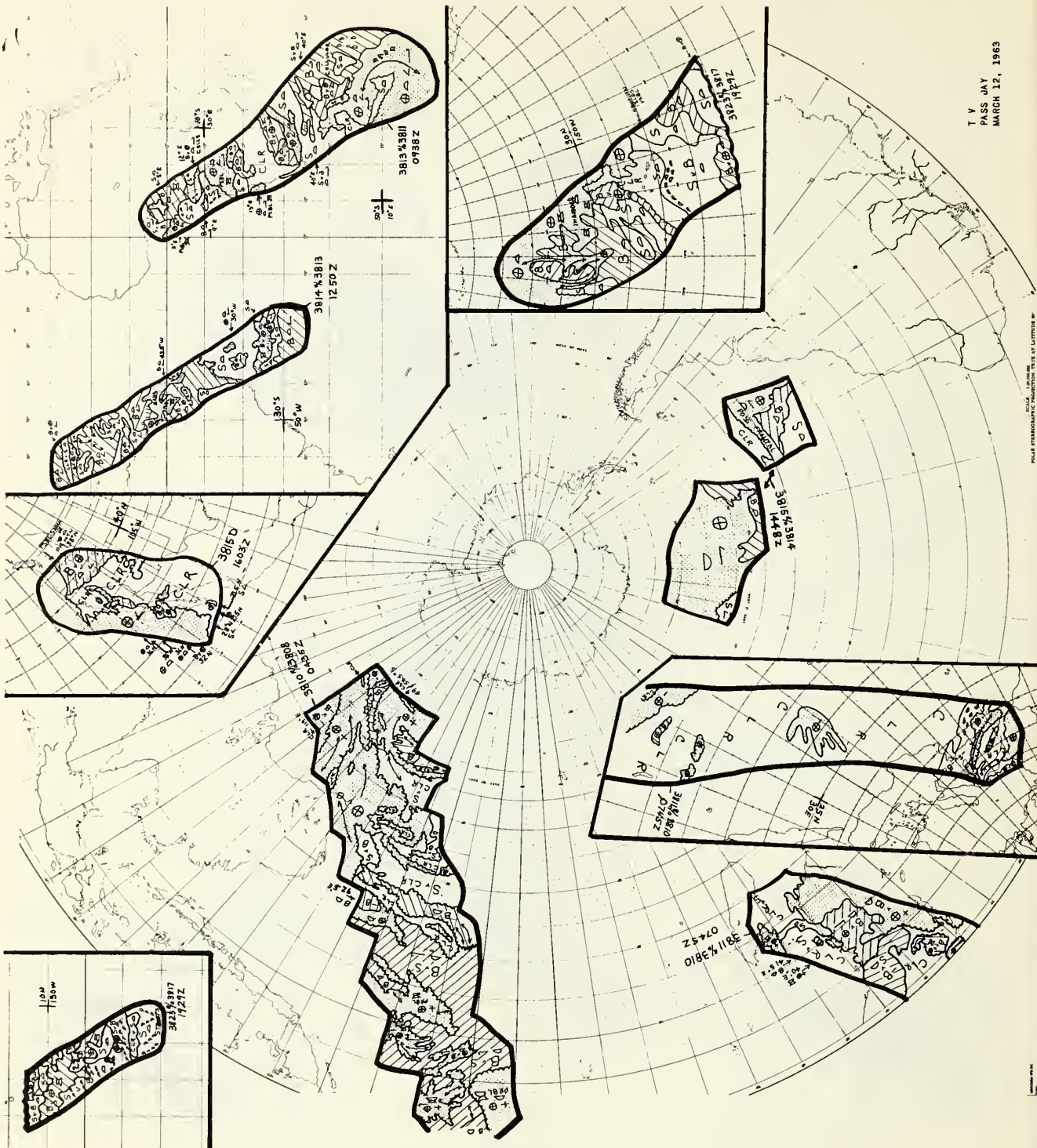




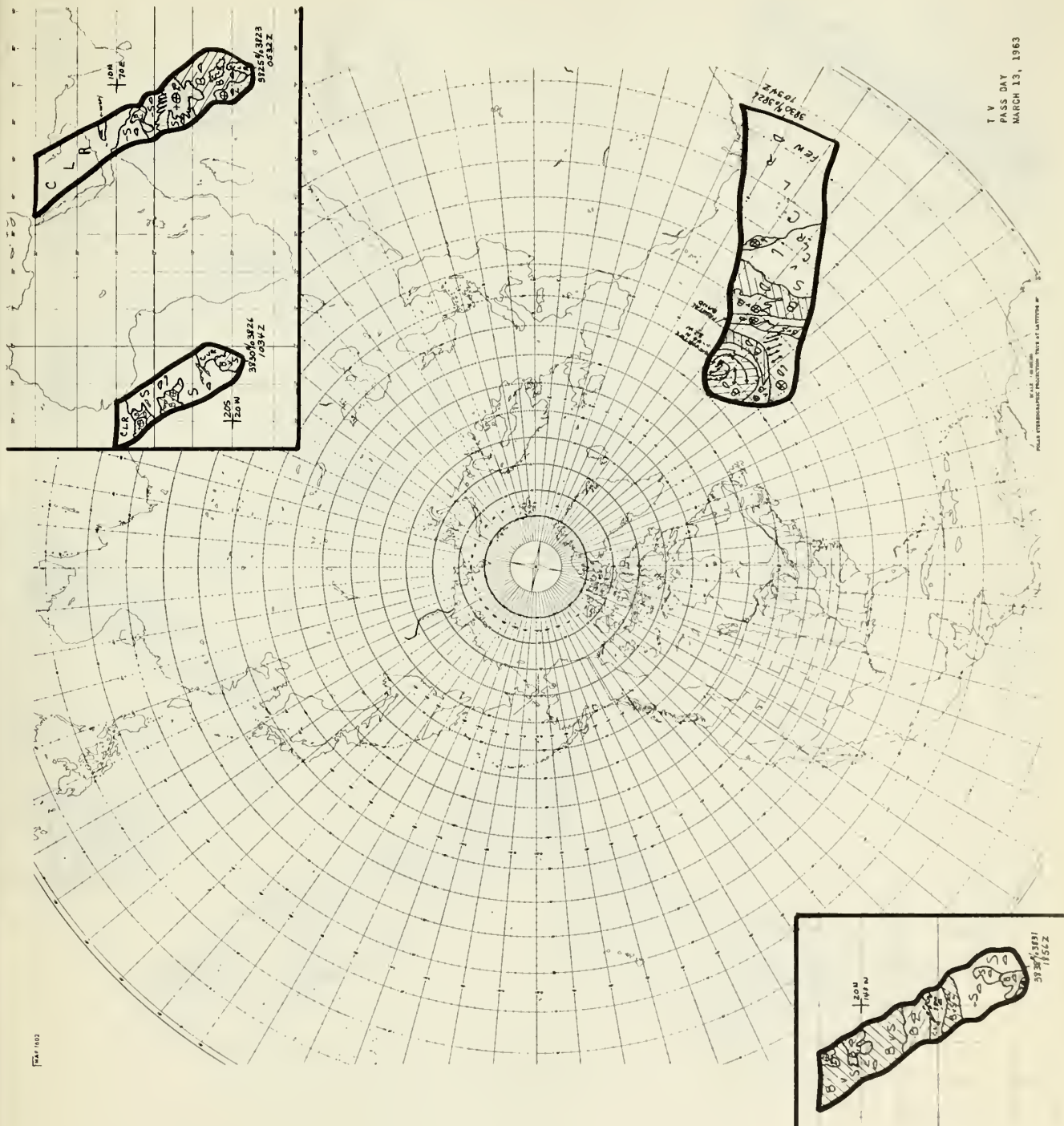


T V  
PALS DAY  
MARCH 11, 1963





T V  
PASS JAY  
MARCH 12, 1963

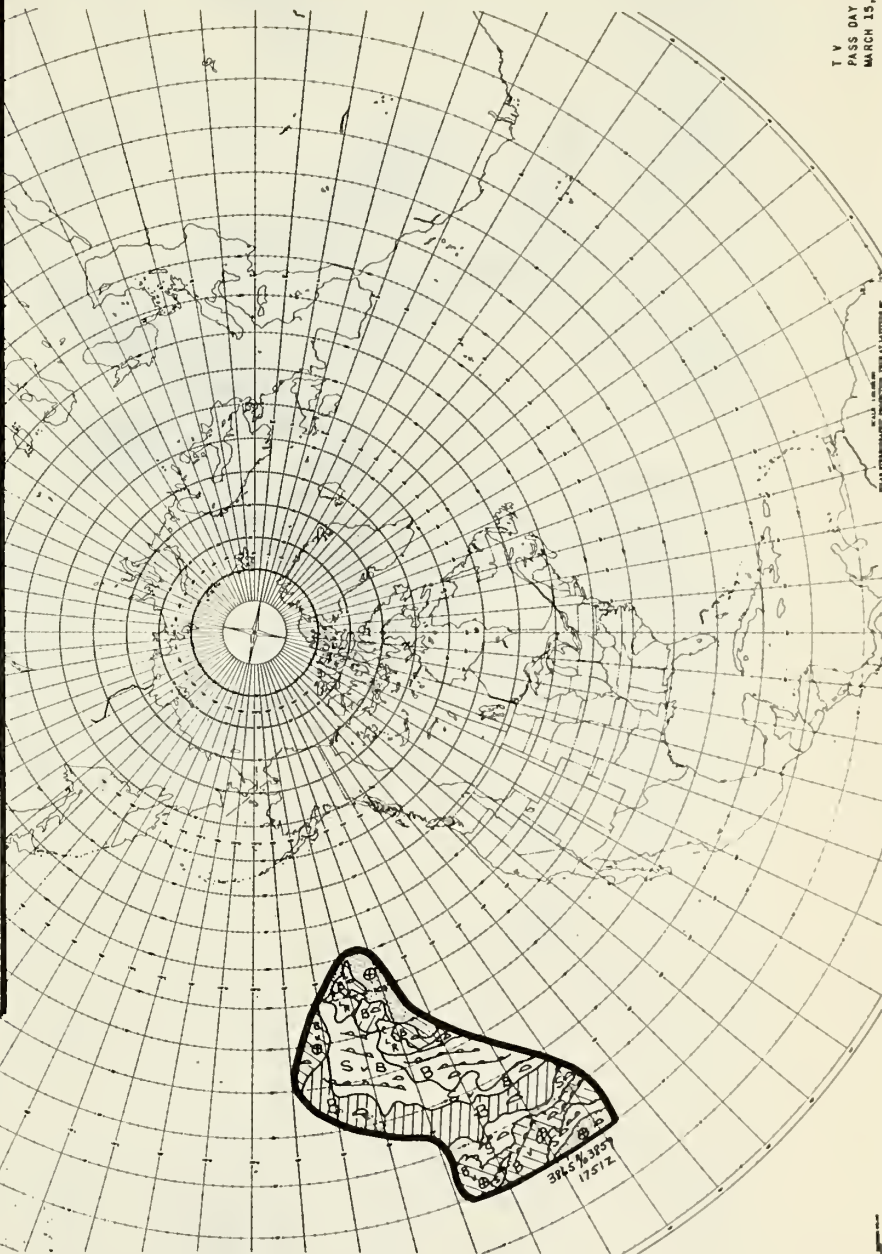
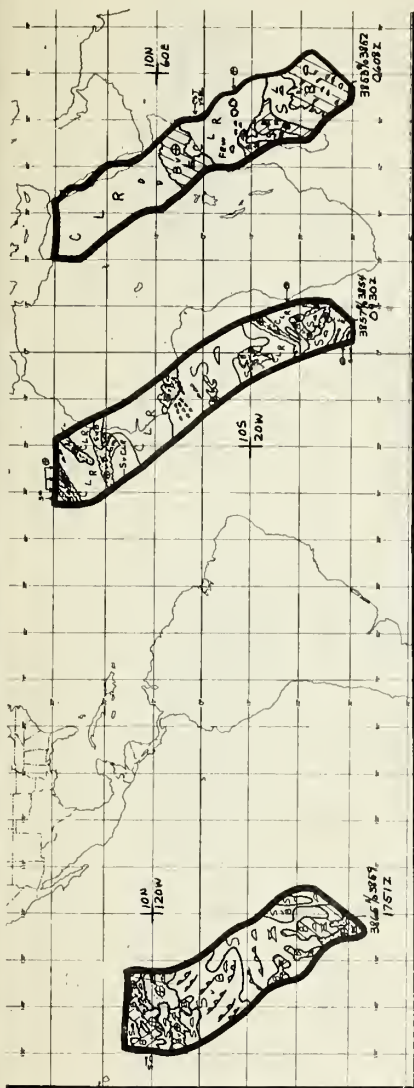


T V  
PASS DAY  
MARCH 13, 1963



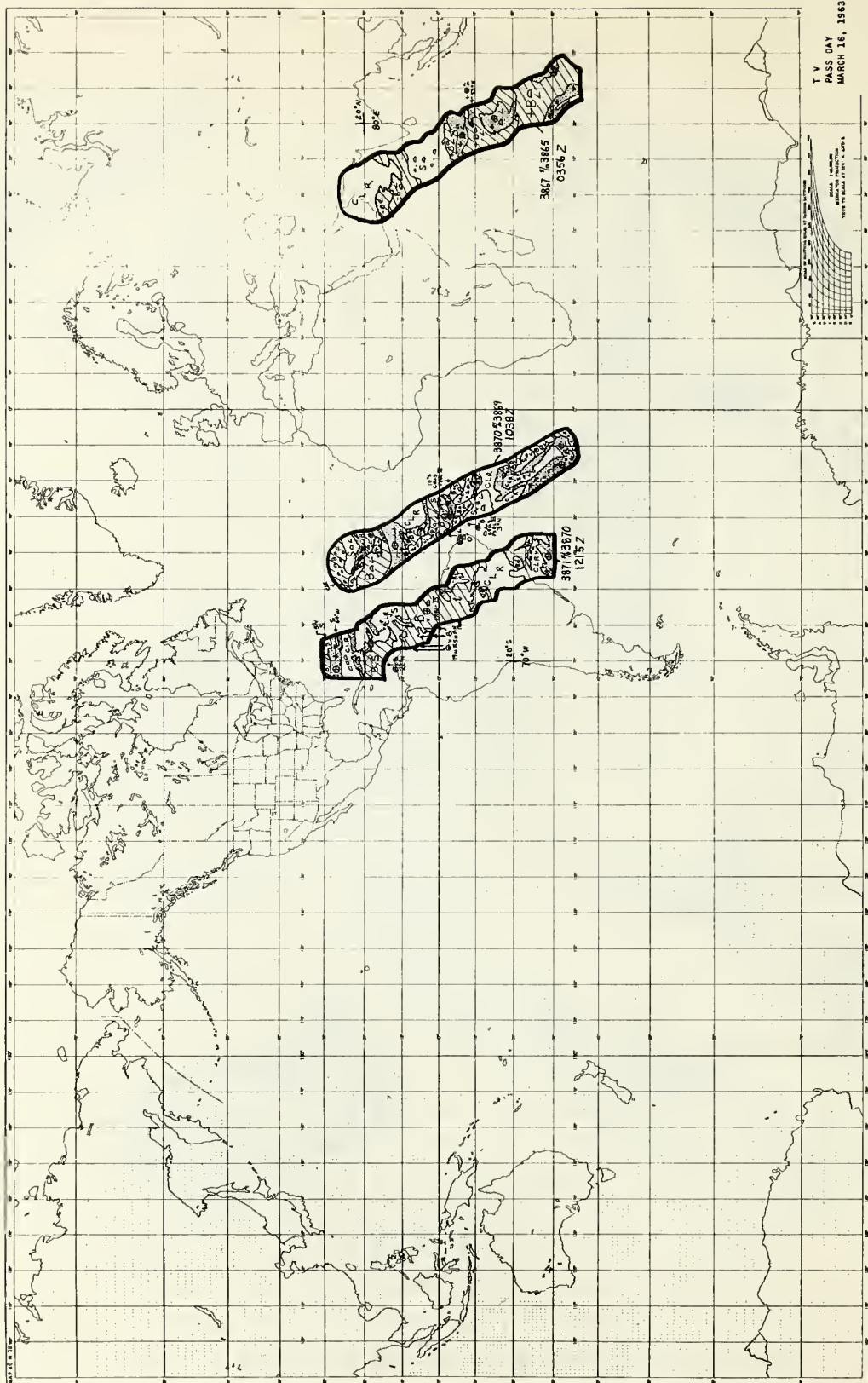
SCALE: 1 cm. = 100 m.





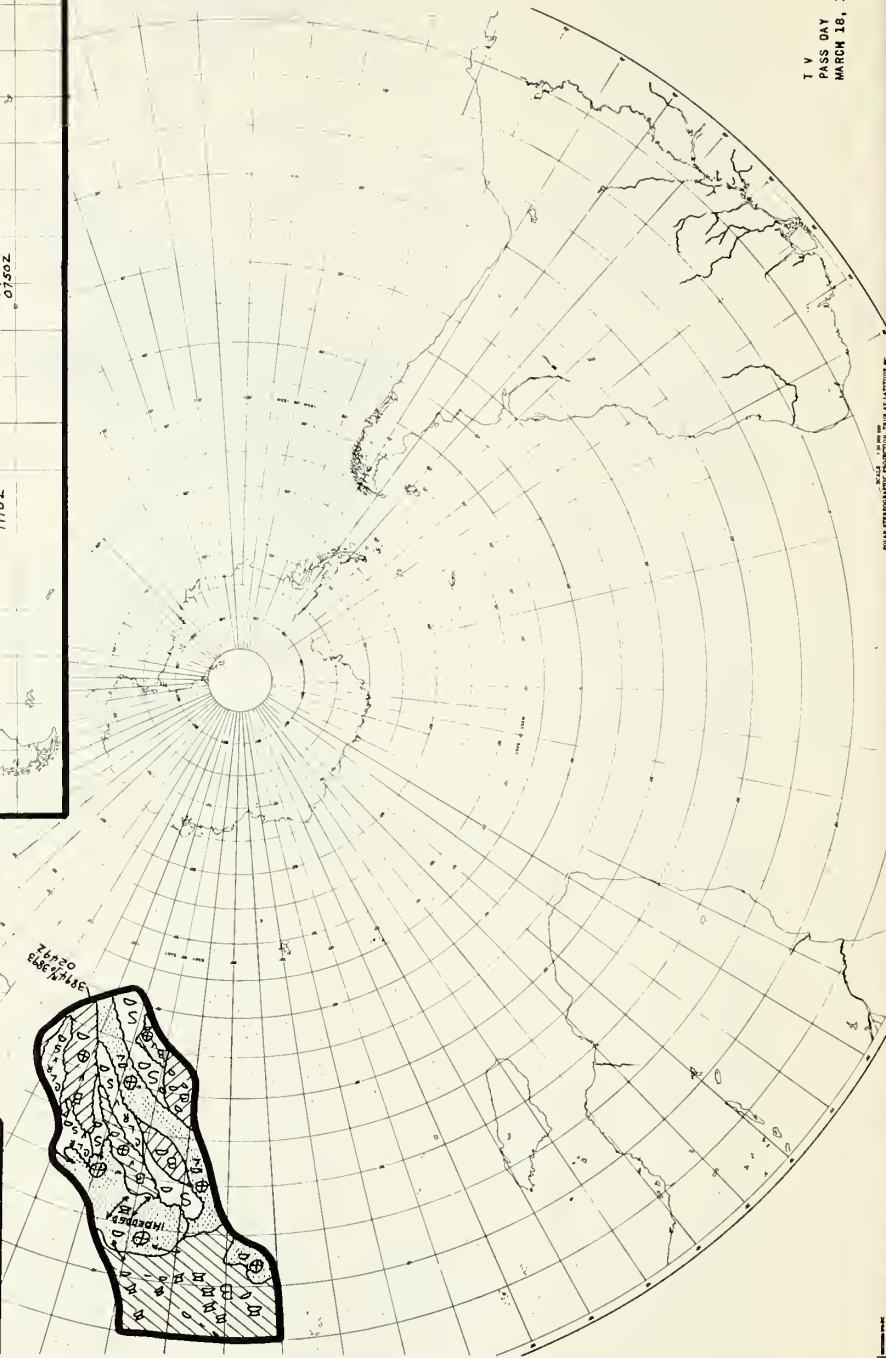
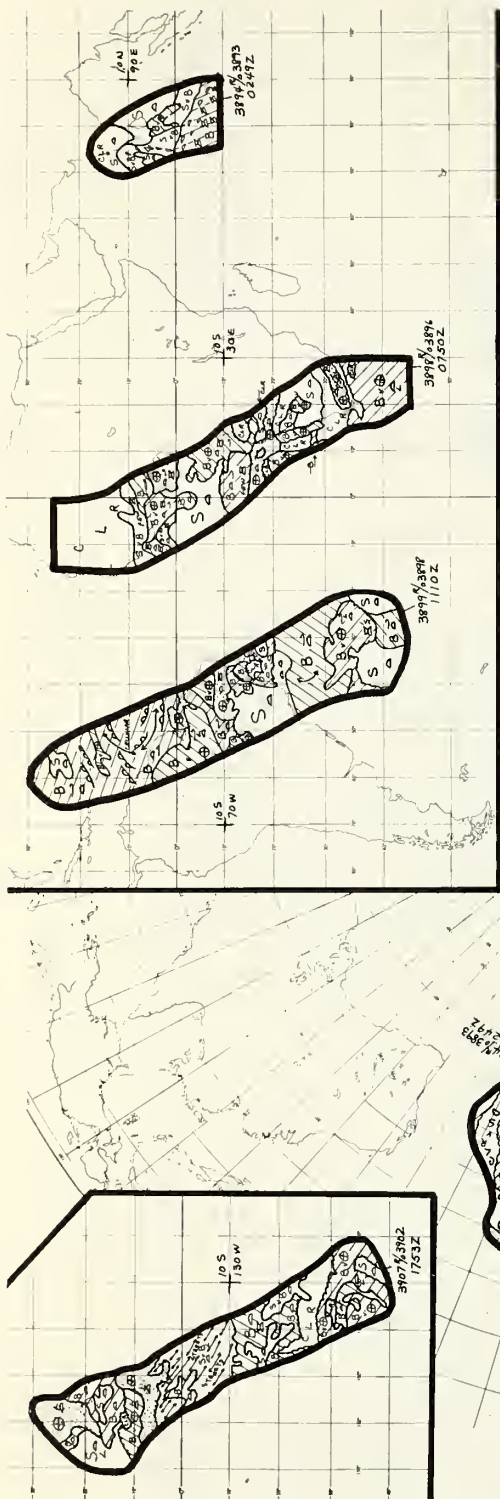
T V  
PASS DAY  
MARCH 15, 1963



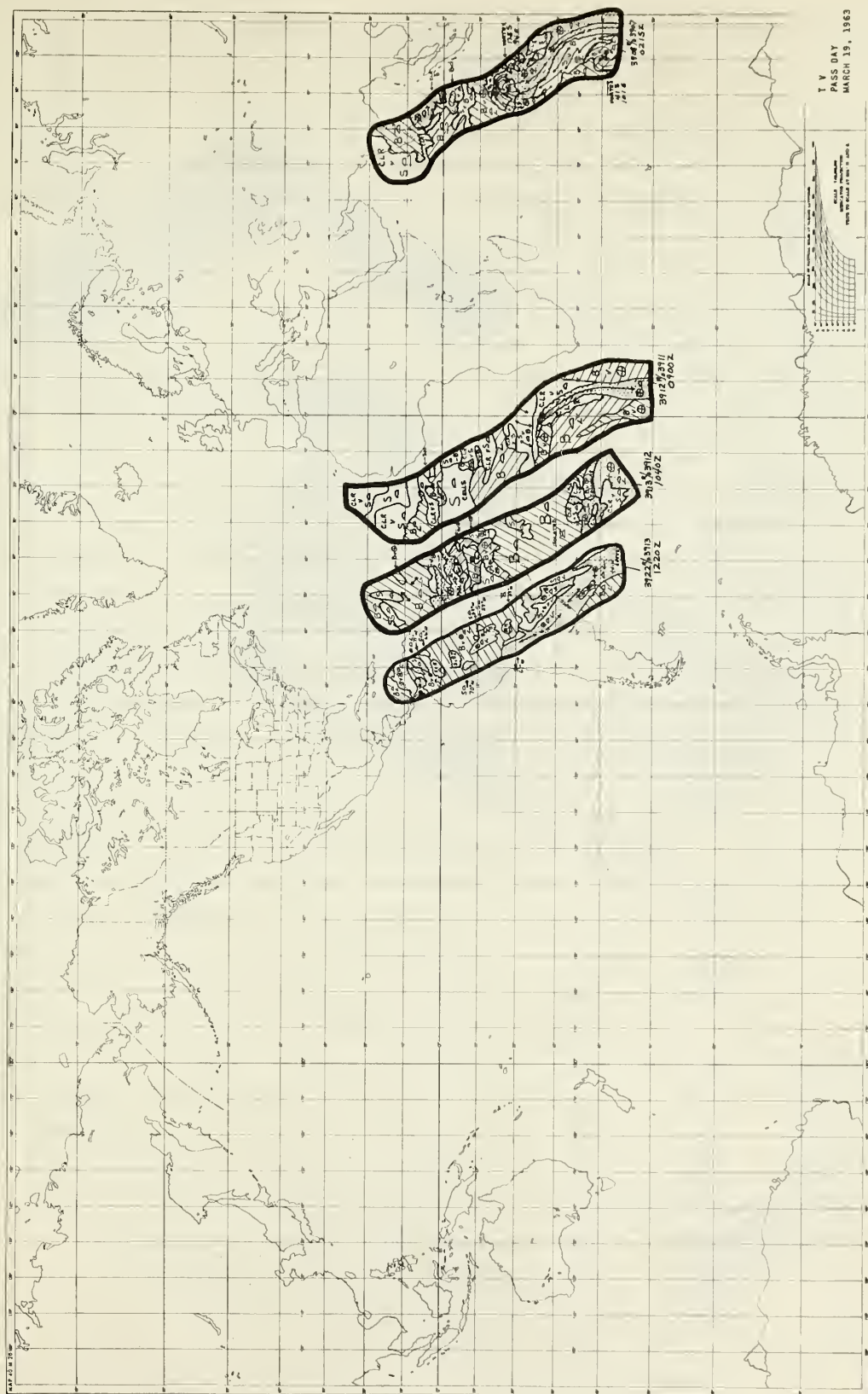






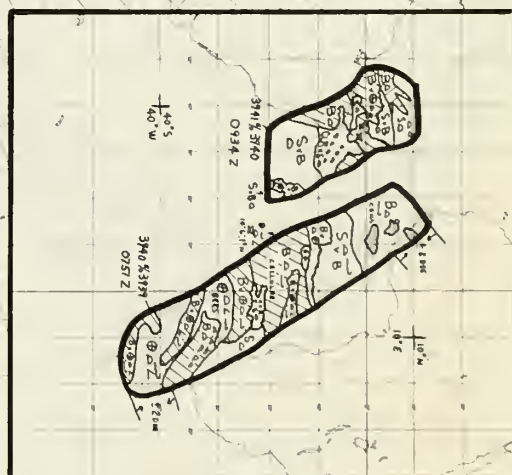
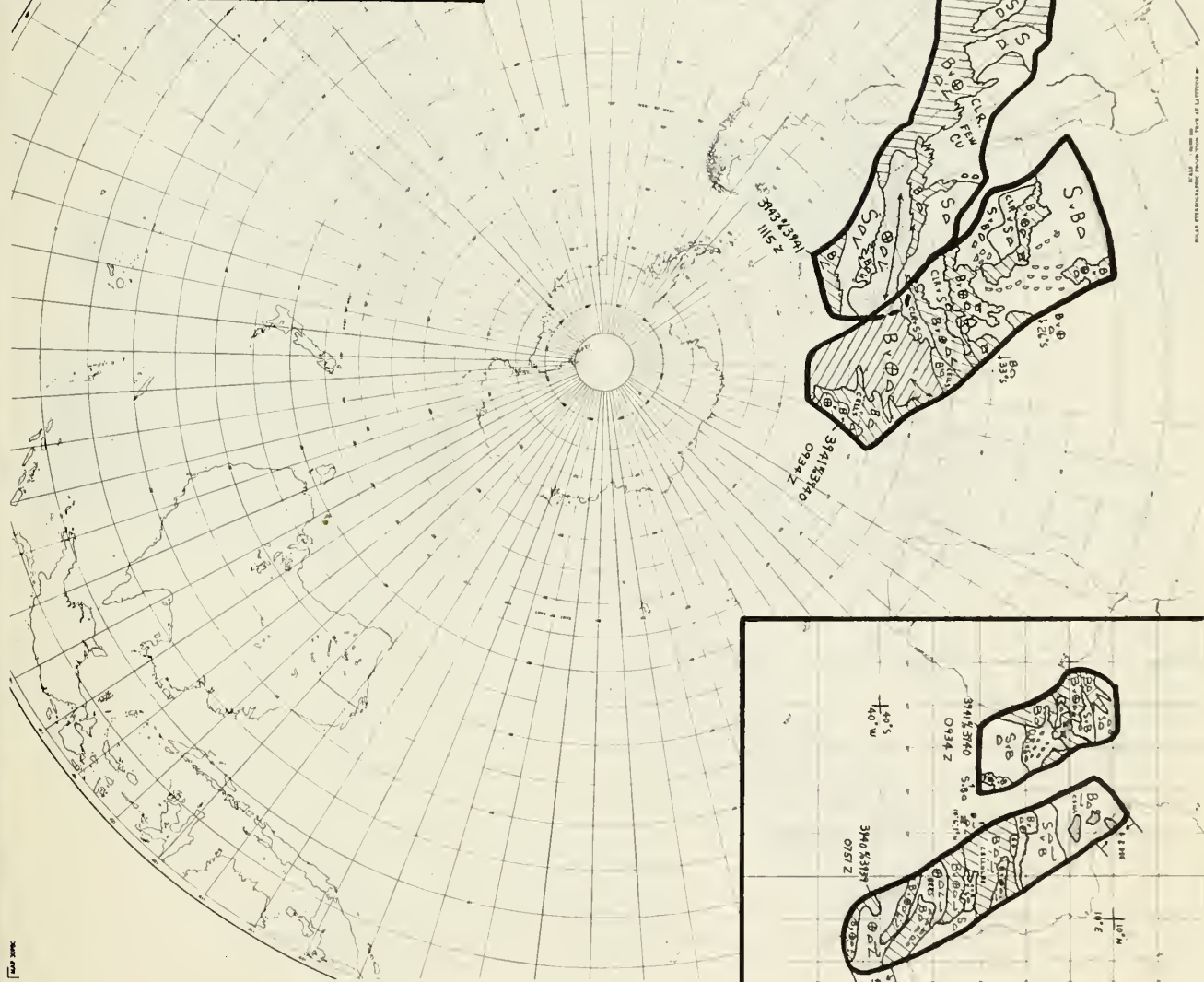
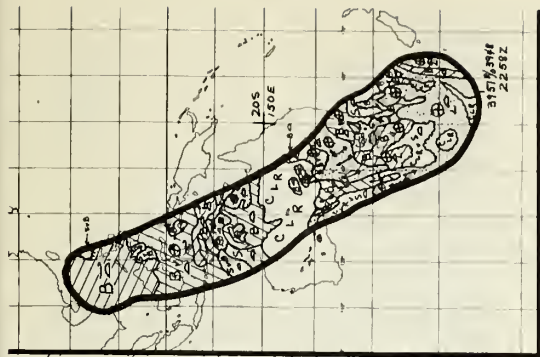


T. V.  
PASS DAY  
MARCH 18, 1963





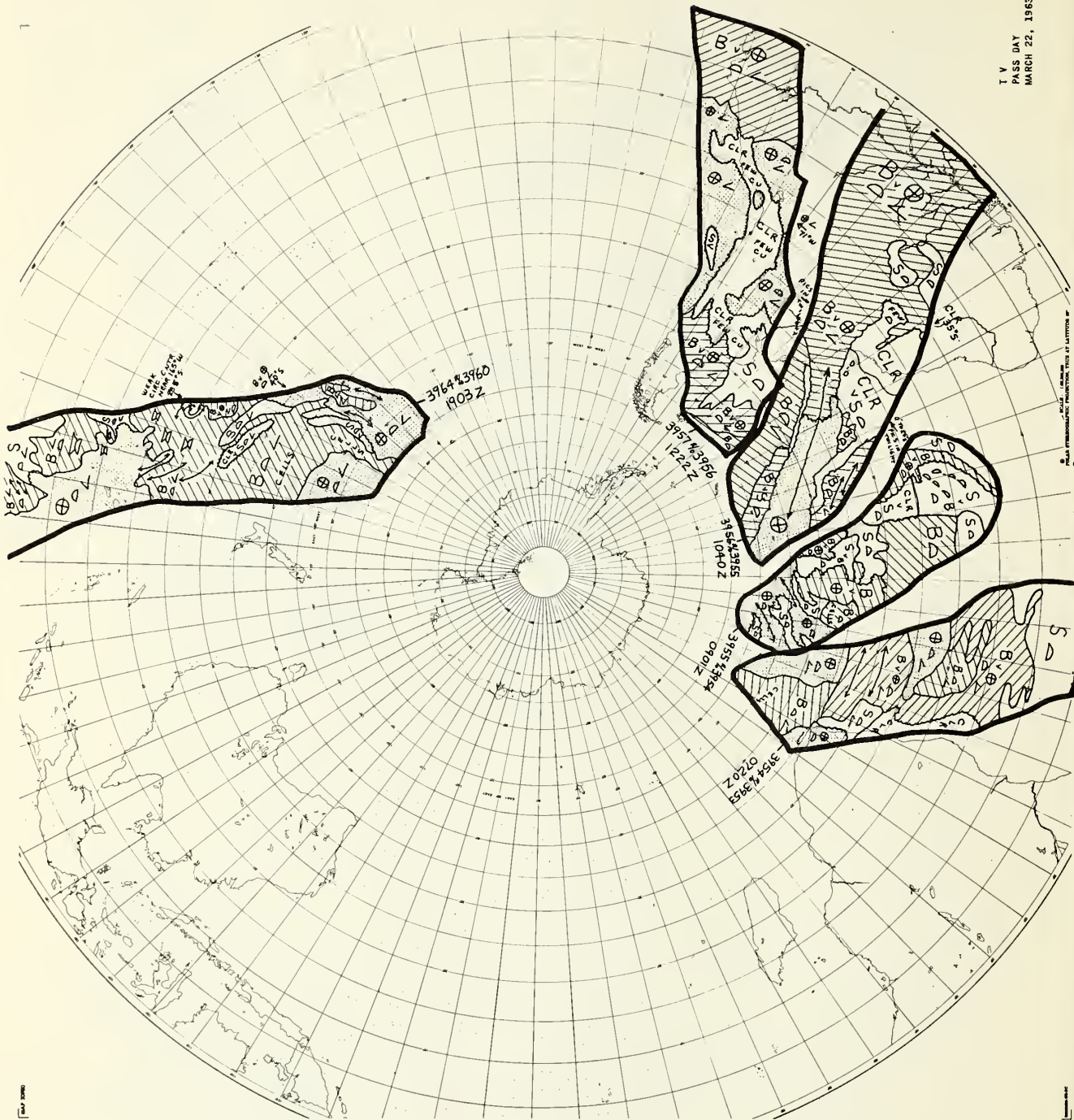




T V  
PASS DAY  
MARCH 21, 1963

PLATE PERMANENT FROM THE T-100 AT LANTANA





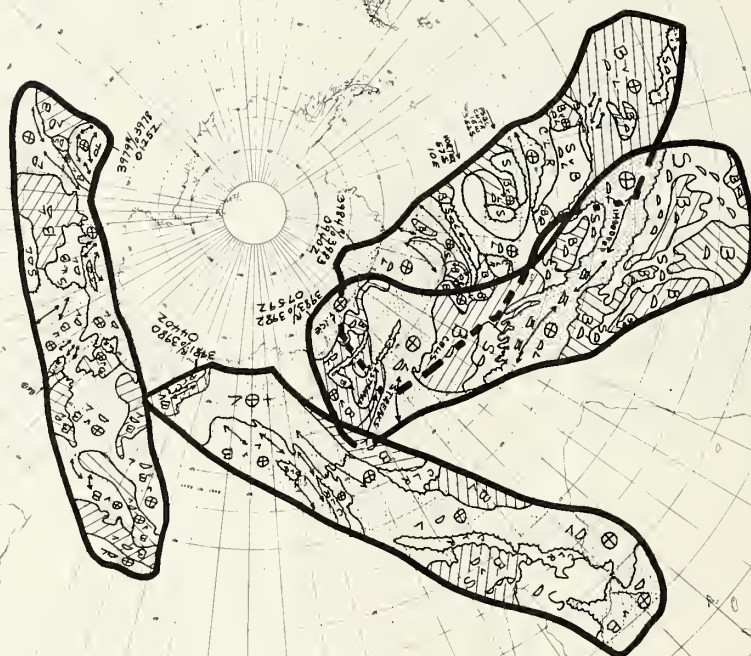
T V  
PASS DAY  
MARCH 22, 1963

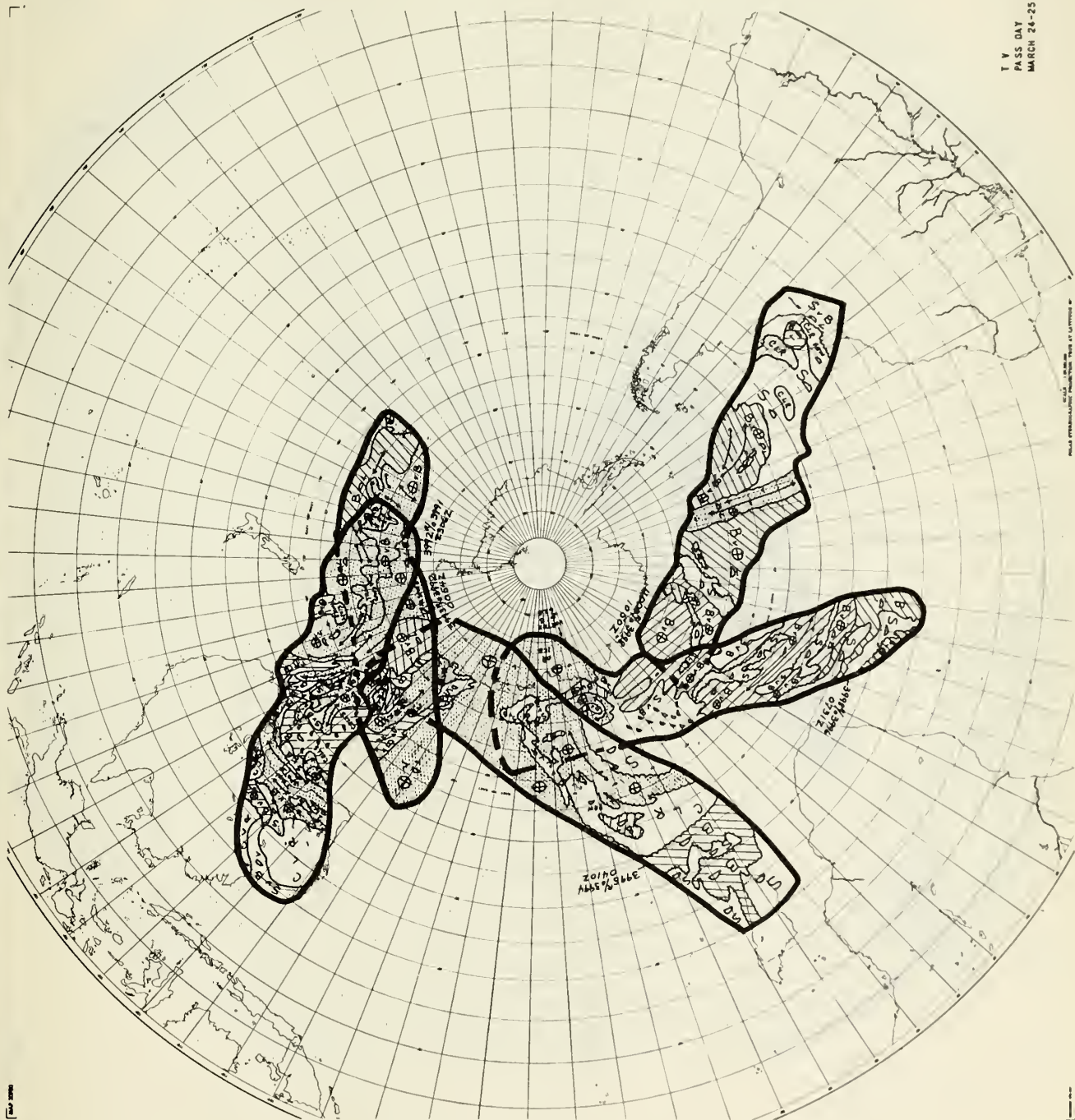


T V  
PASS DAY  
MARCH 23, 1963



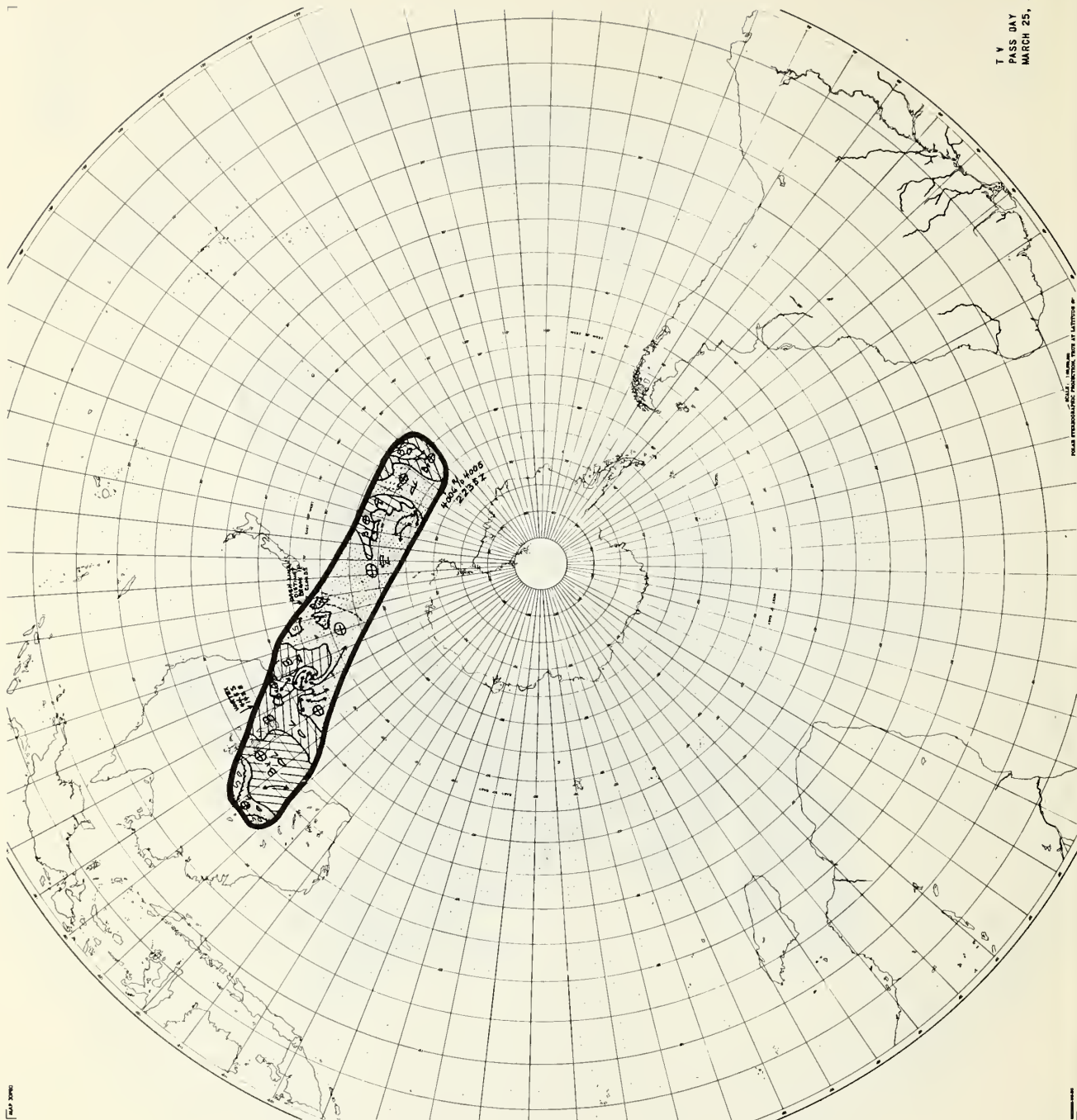
SCALE 1:200,000





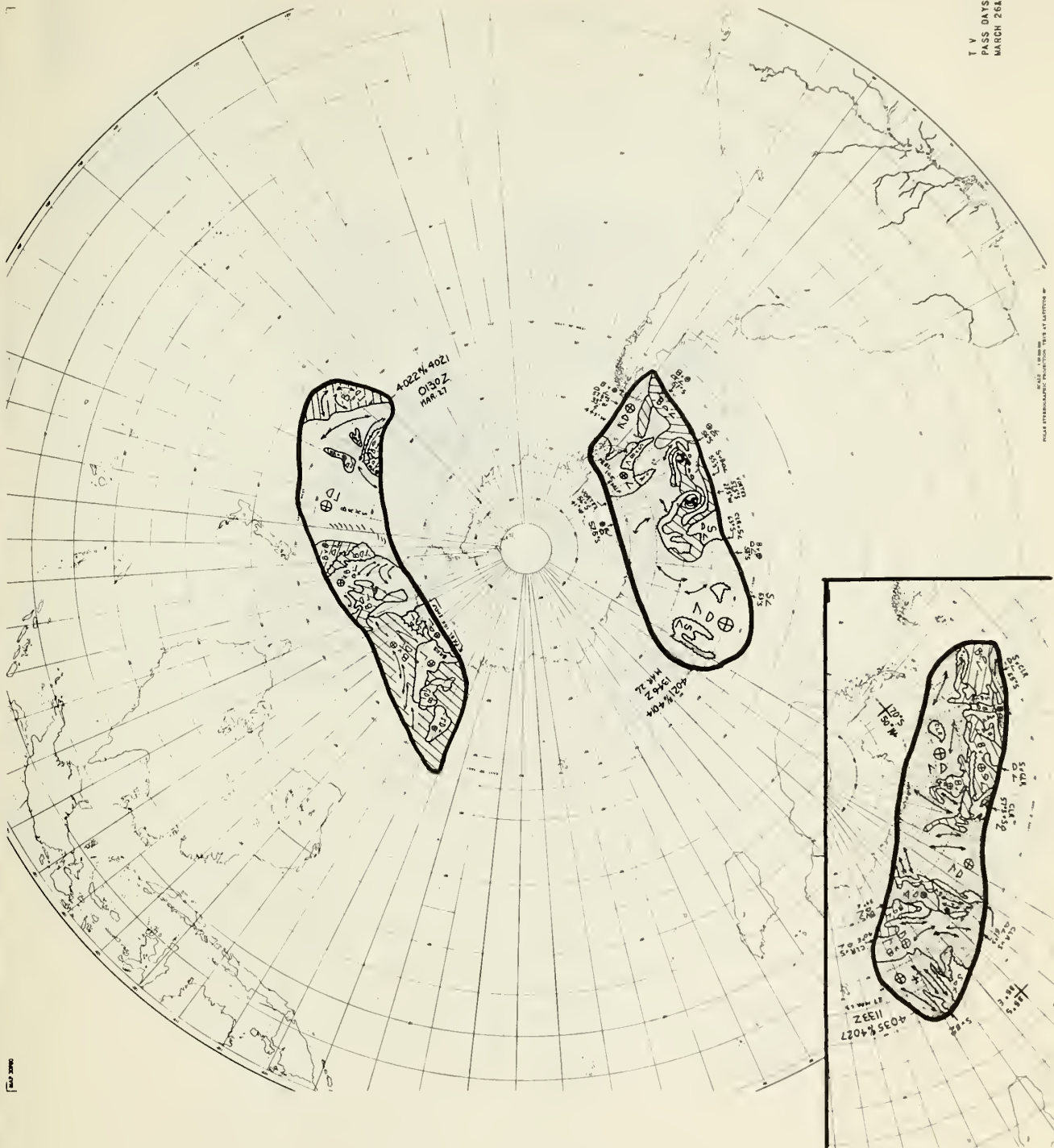
T V  
 PASS DAY  
 MARCH 24-25, 1963





T V  
PASS DAY  
MARCH 25, 1963

PLEASE PHOTOGRAPHIC REPRODUCTION FROM AT LATITUDE 40°

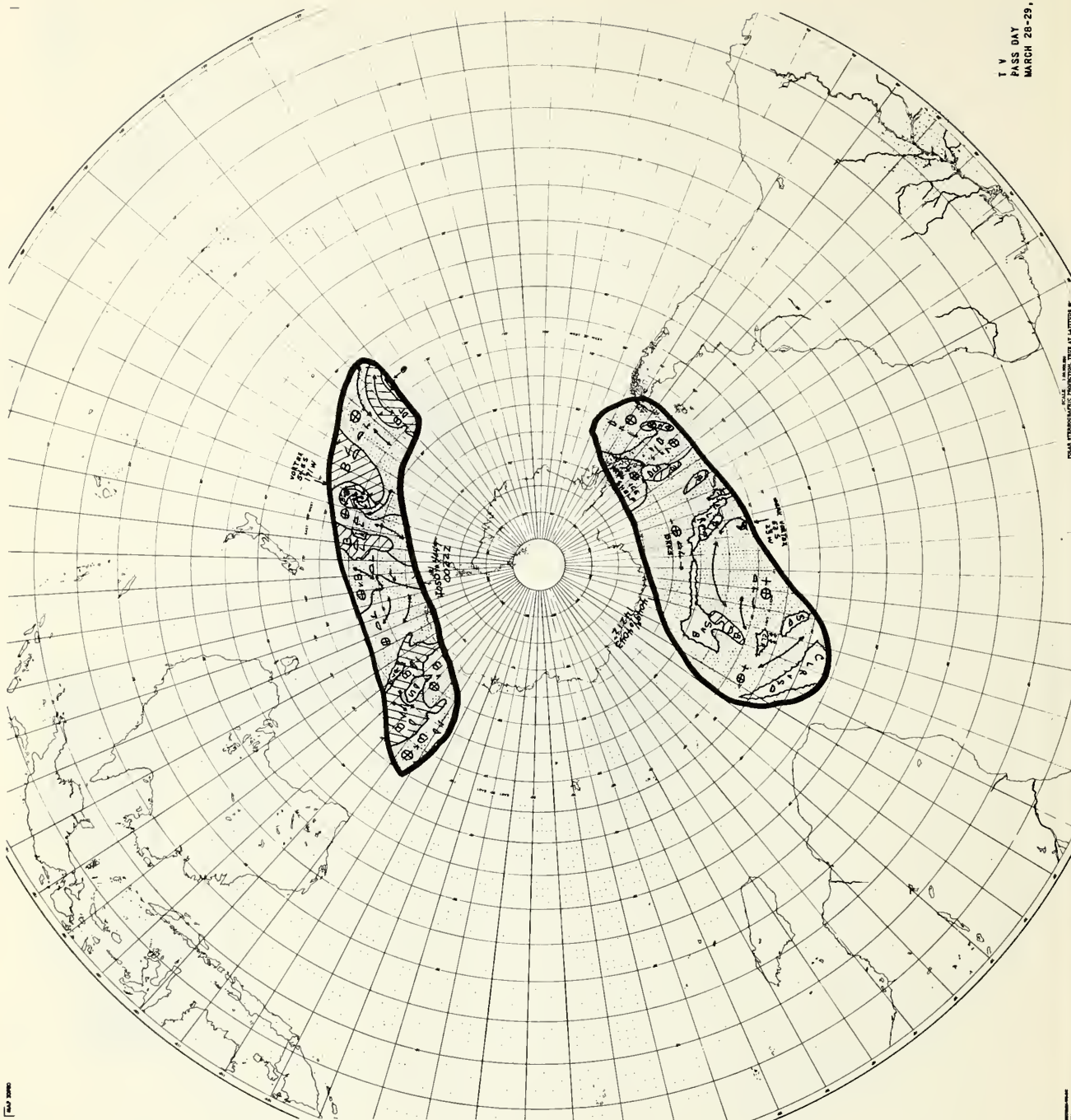


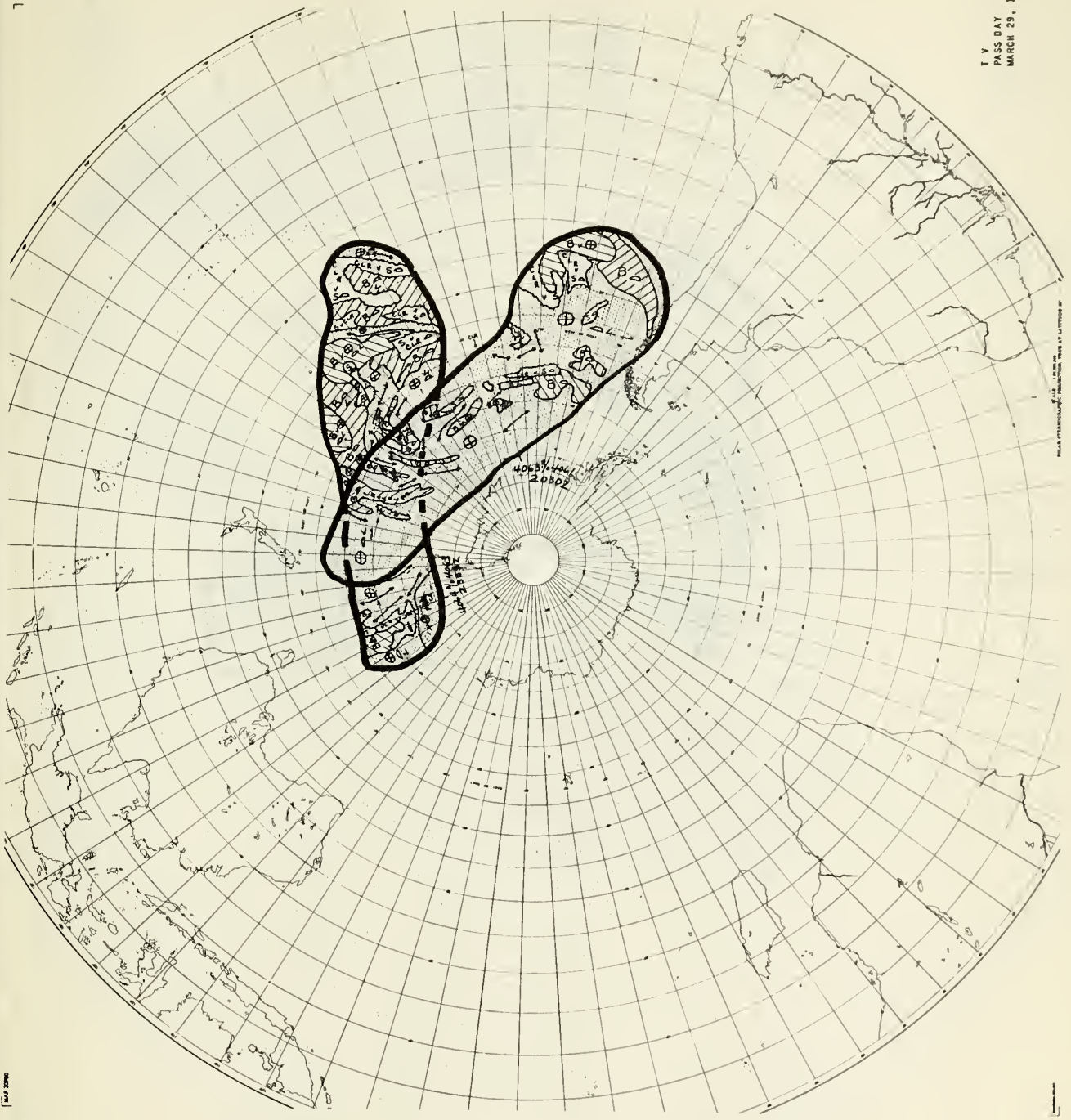
T V  
PASS DAYS  
MARCH 26/27, 1963

PLEASE HYDROGRAPHIC DEPARTMENT FOR THE USE OF NAVY



SCALE 1 cm. 100 μm

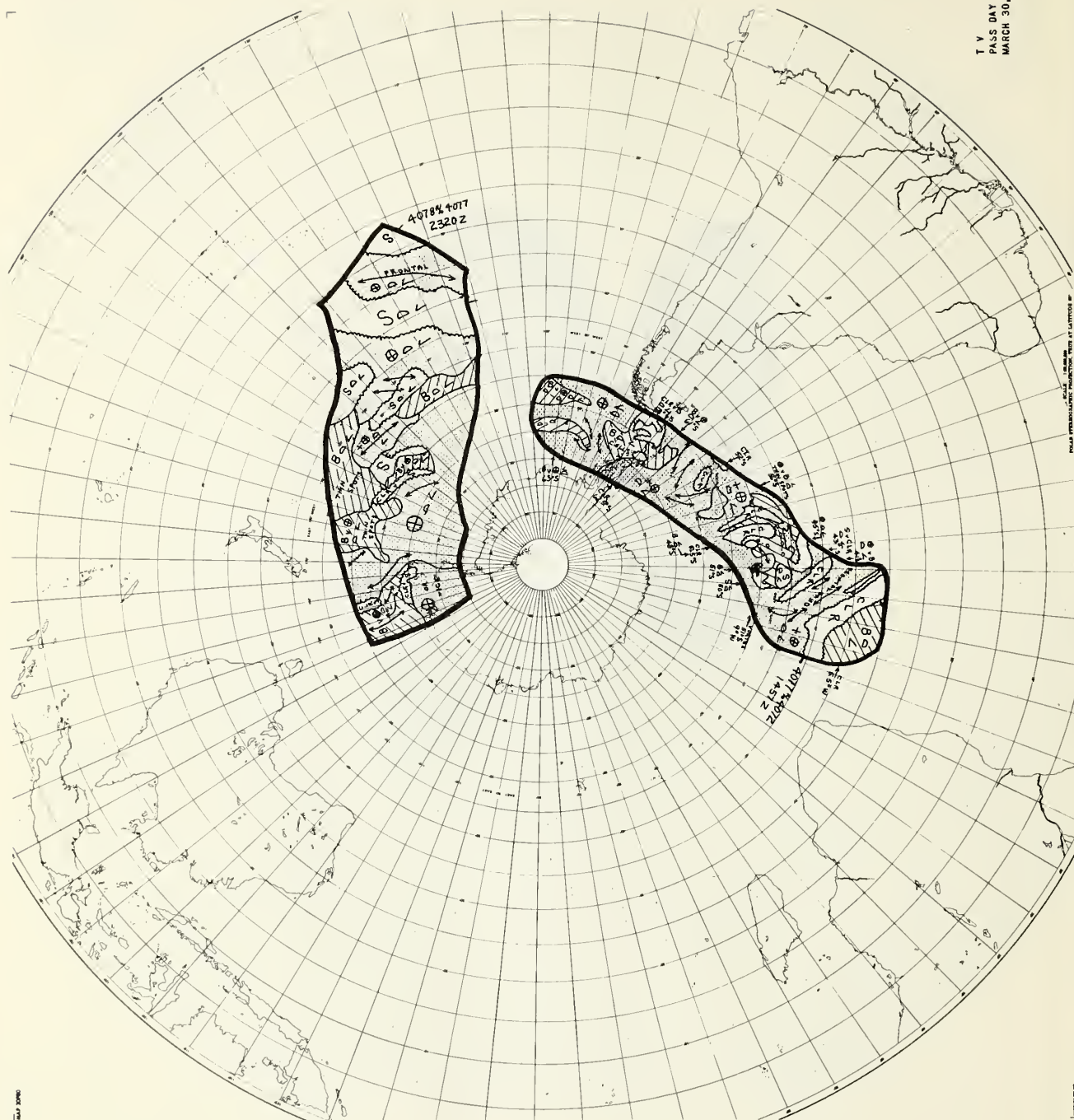


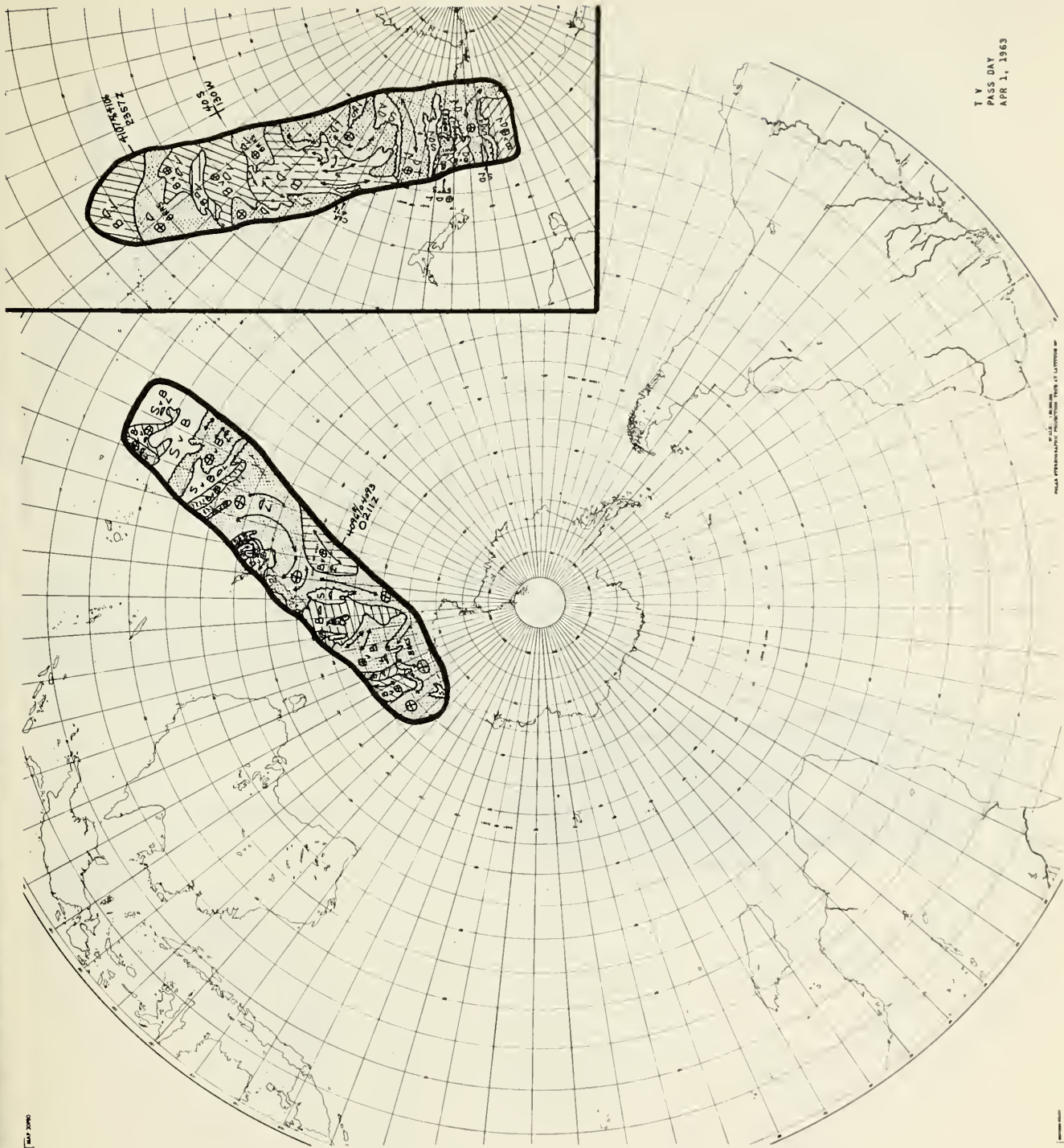


T V  
PASS DAY  
MARCH 29, 1963



T V  
PASS DAY  
MARCH 30, 1963





T V  
PASS DAY  
APR 1, 1963



SCALE 1 MILE

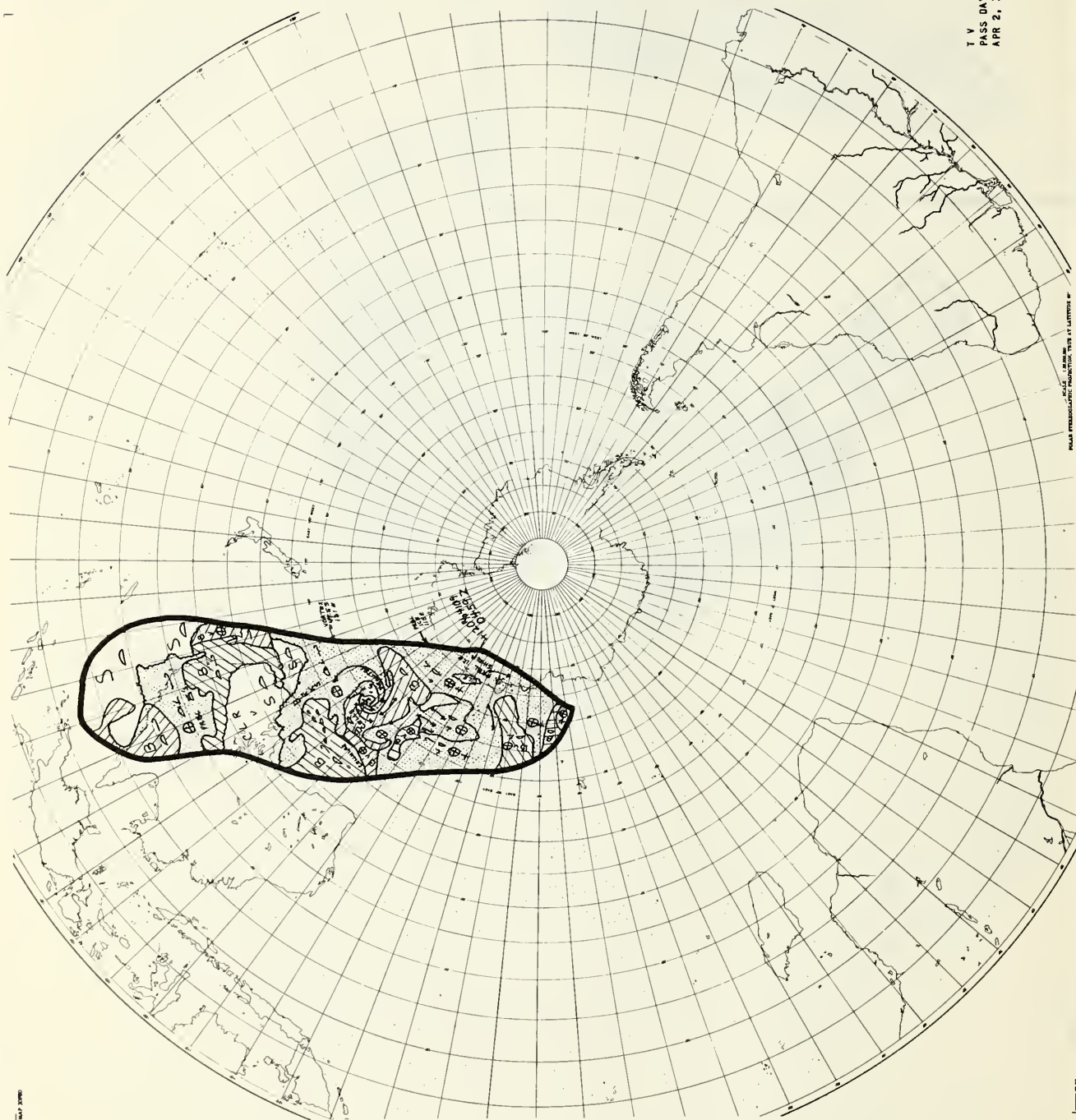
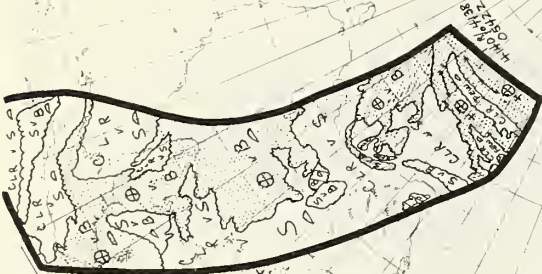
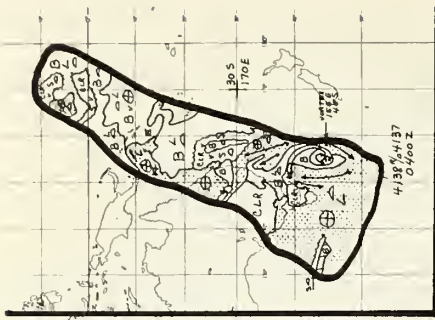


TABLE 1. (Continued)







T V  
PASS DAY  
APR 4, 1963

SCALE 1:100,000  
POLAR STEREOGRAPHIC PROJECTION TRUE AT LATITUDE 90°





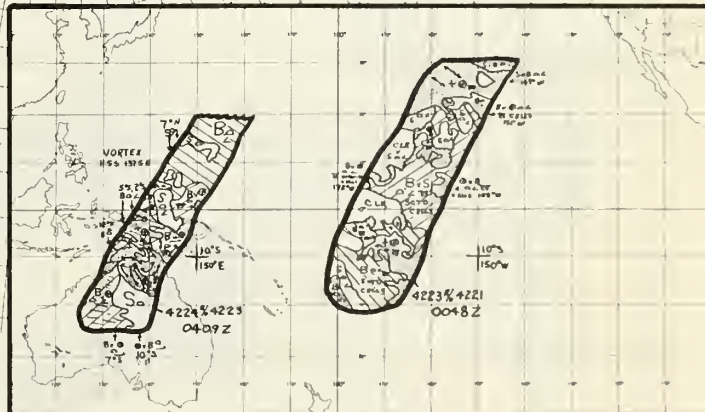
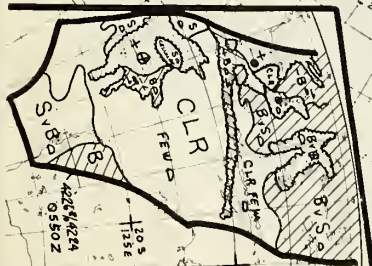
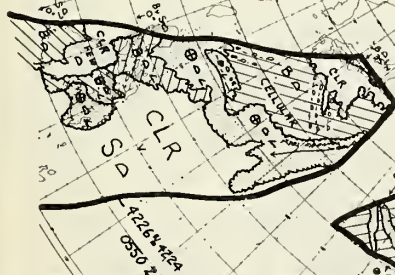
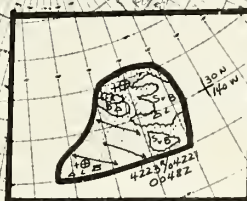
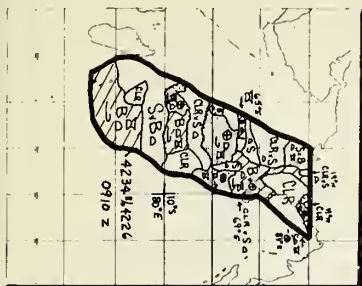




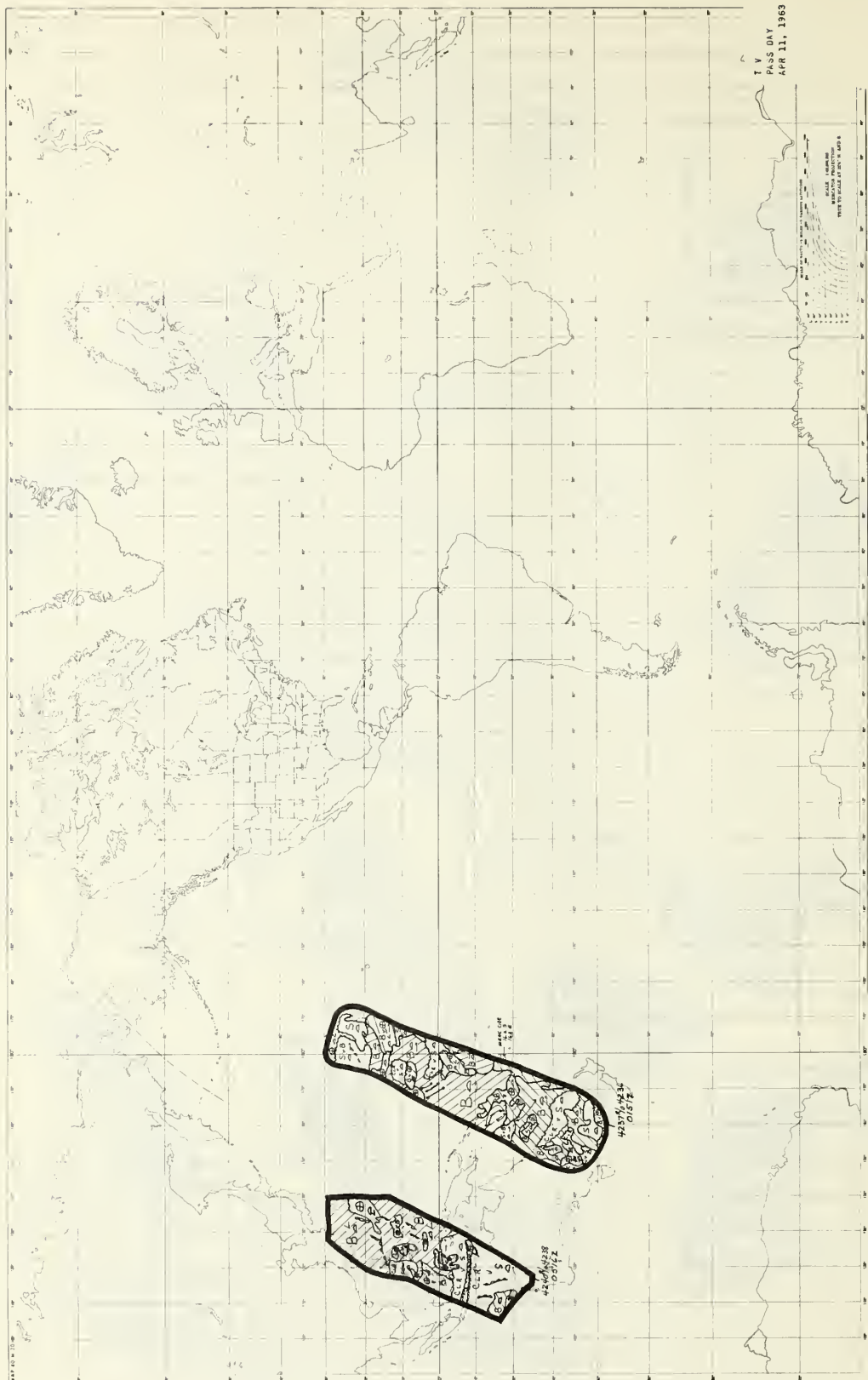


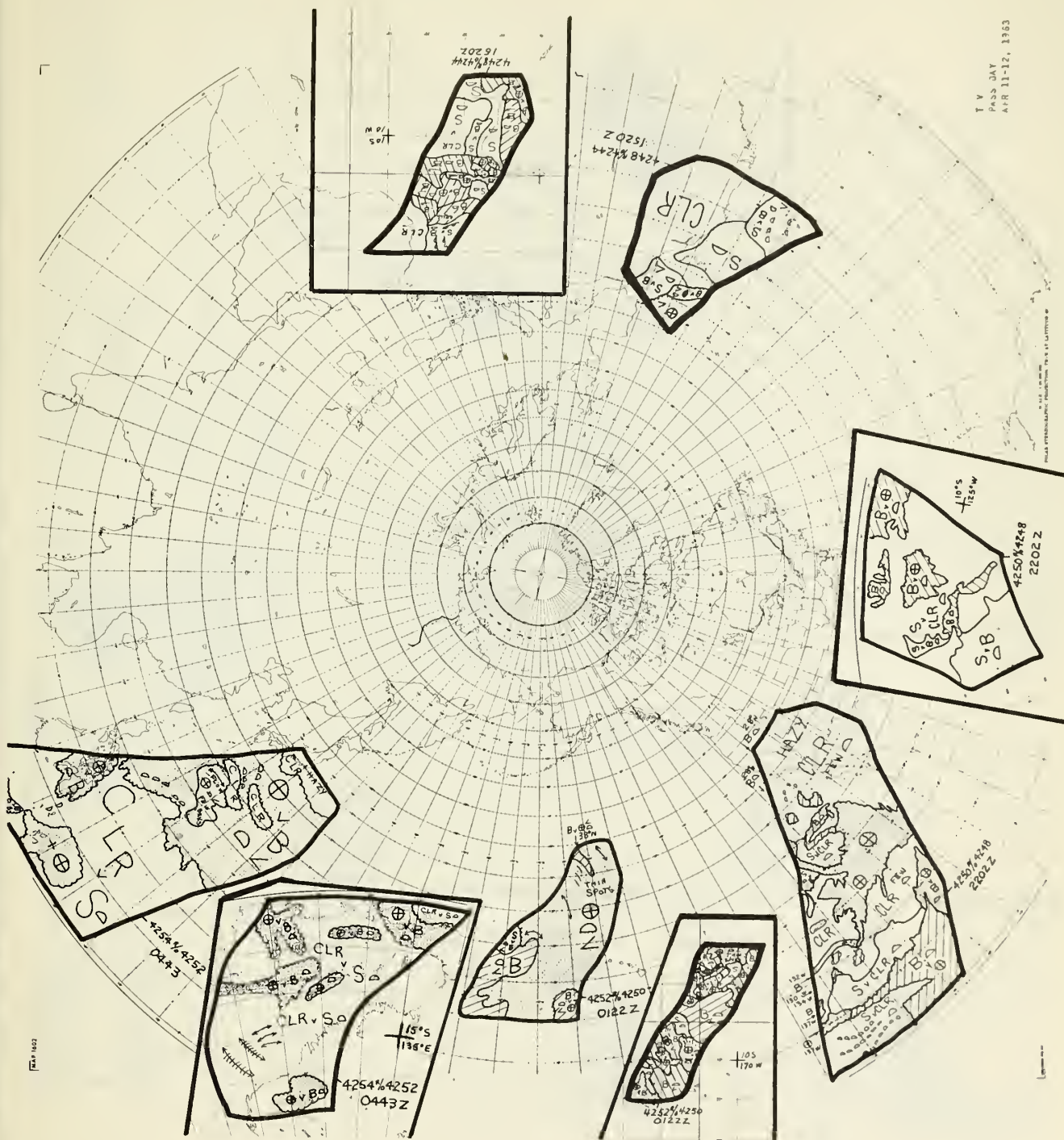


T V  
PASS DAY  
APR 9-10, 1963





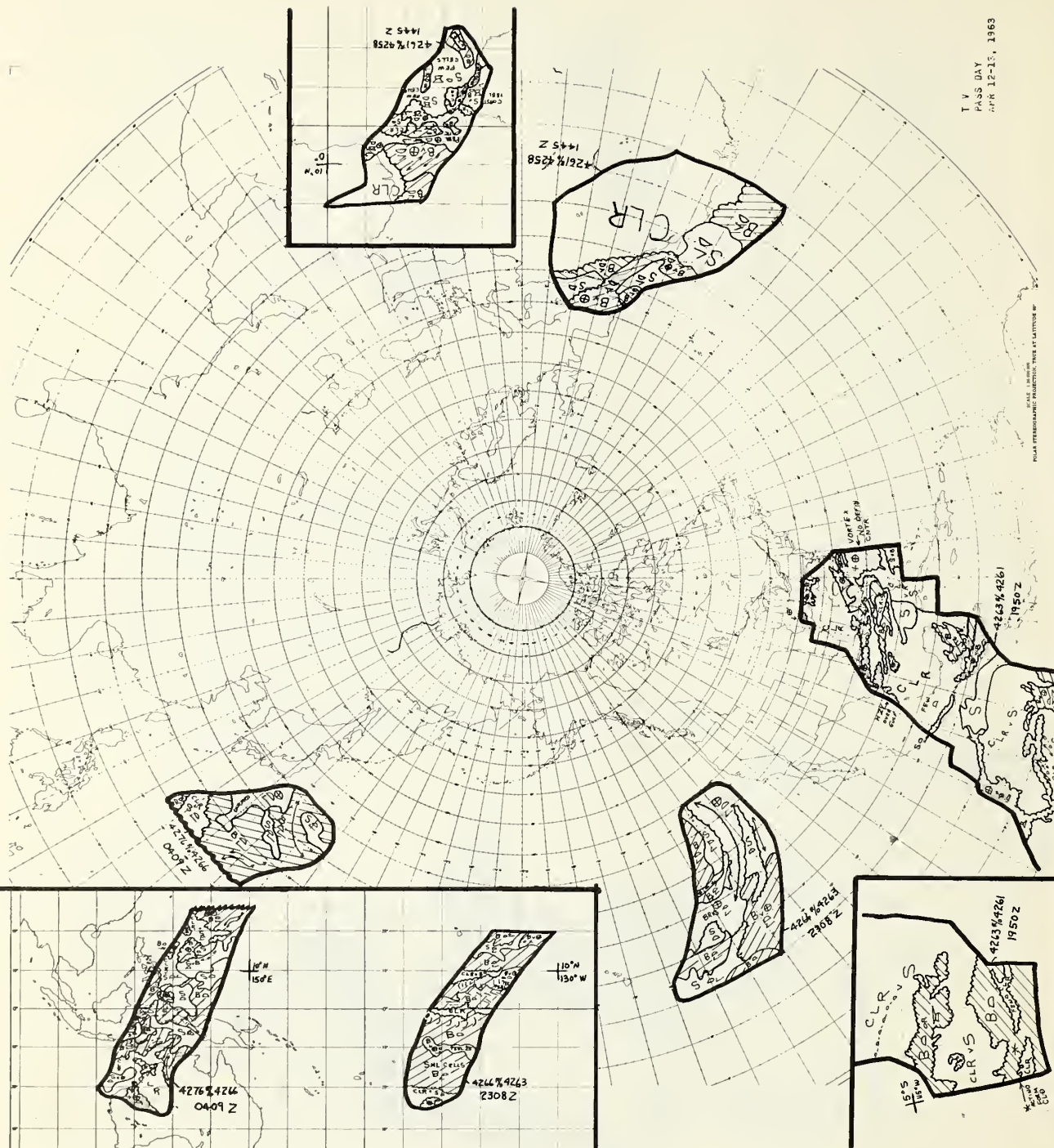


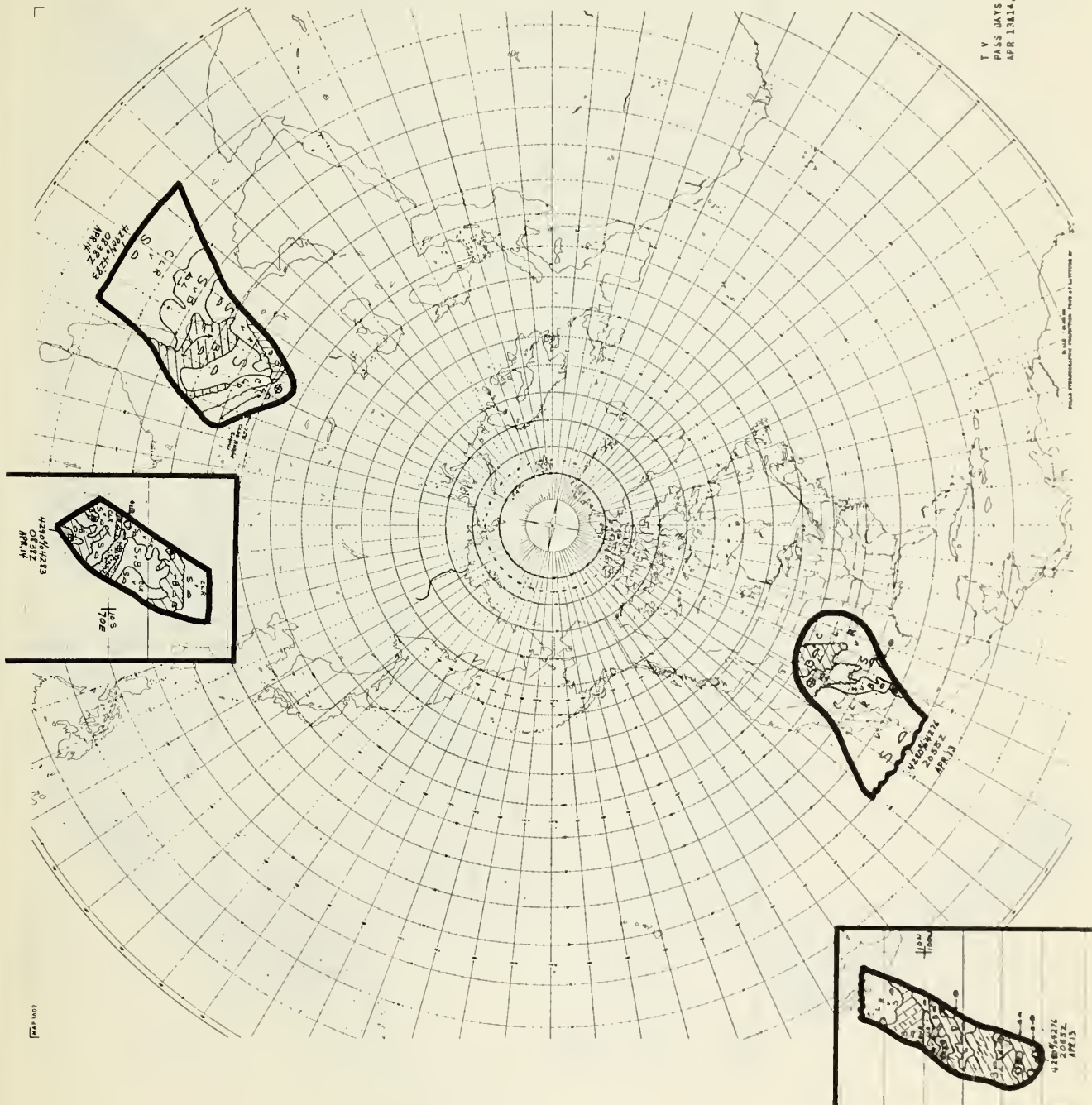




T V  
PASS DAY  
APR 12-15, 1963

POLAR STEREOGRAPHIC PROJECTION, TRUE AT LATITUDE 80°



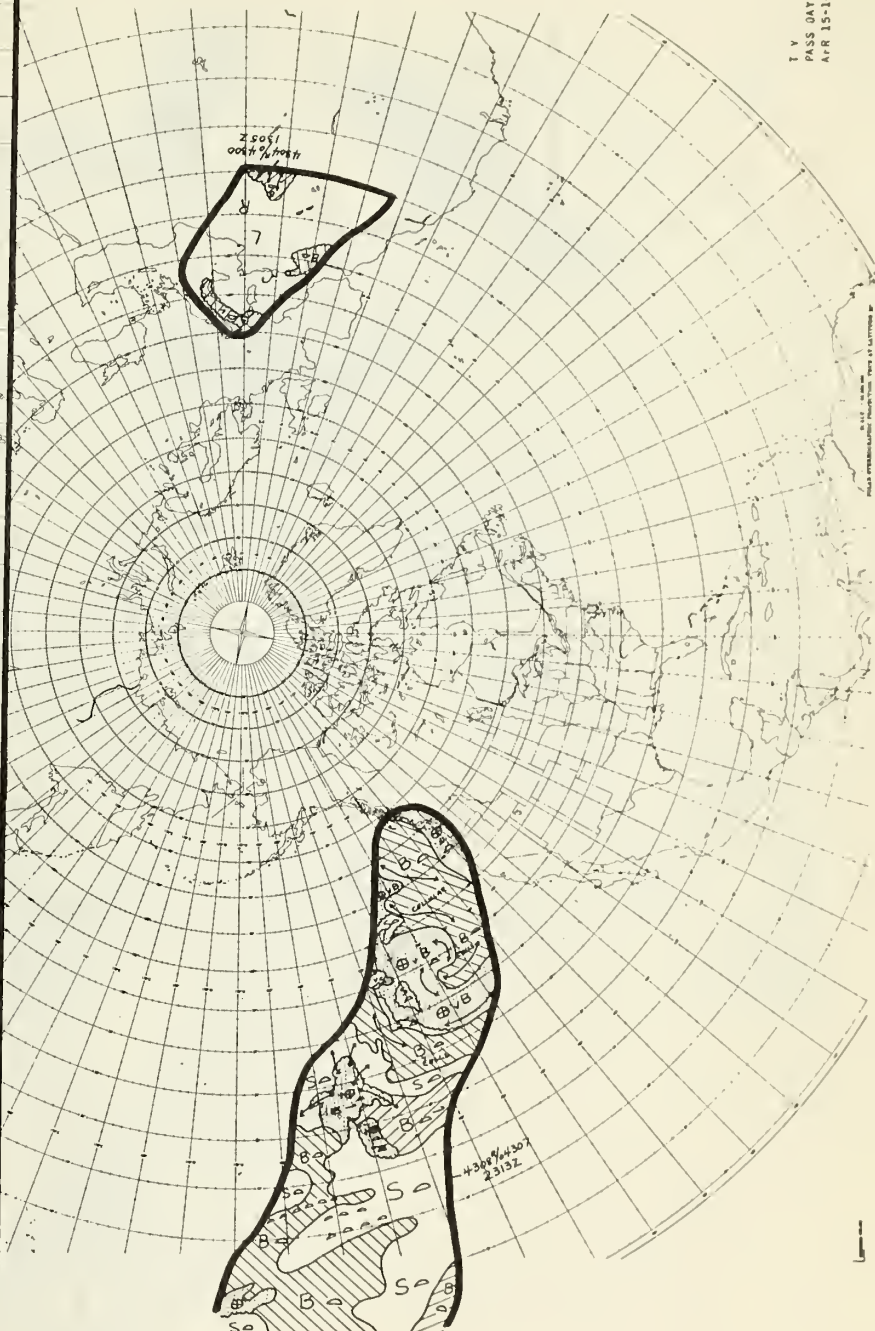
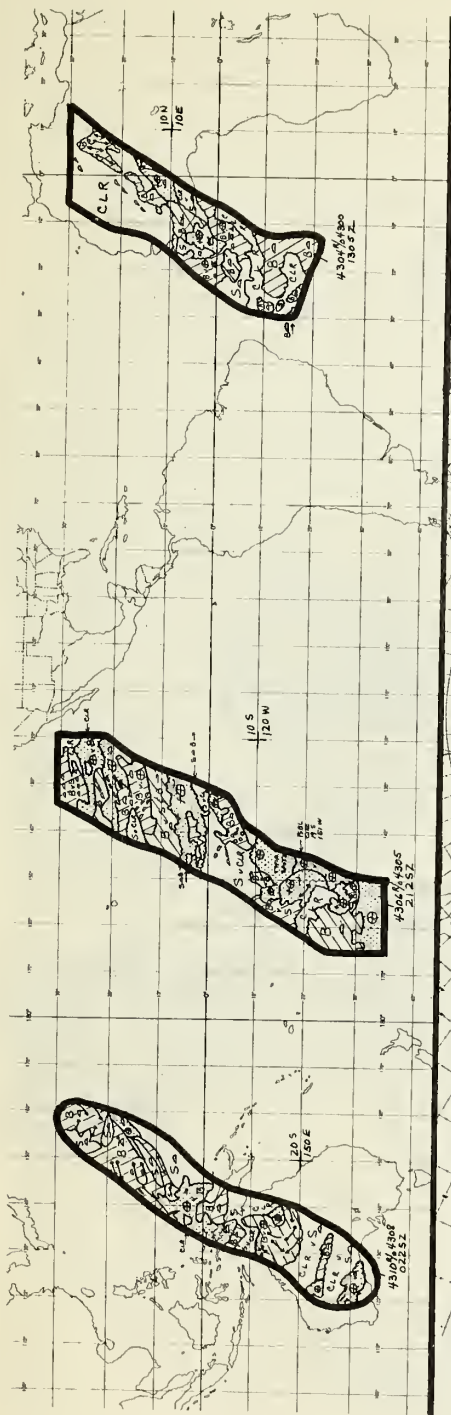


T V  
PASS UAYS  
APR 1314, 1963



SCALE (METERS)

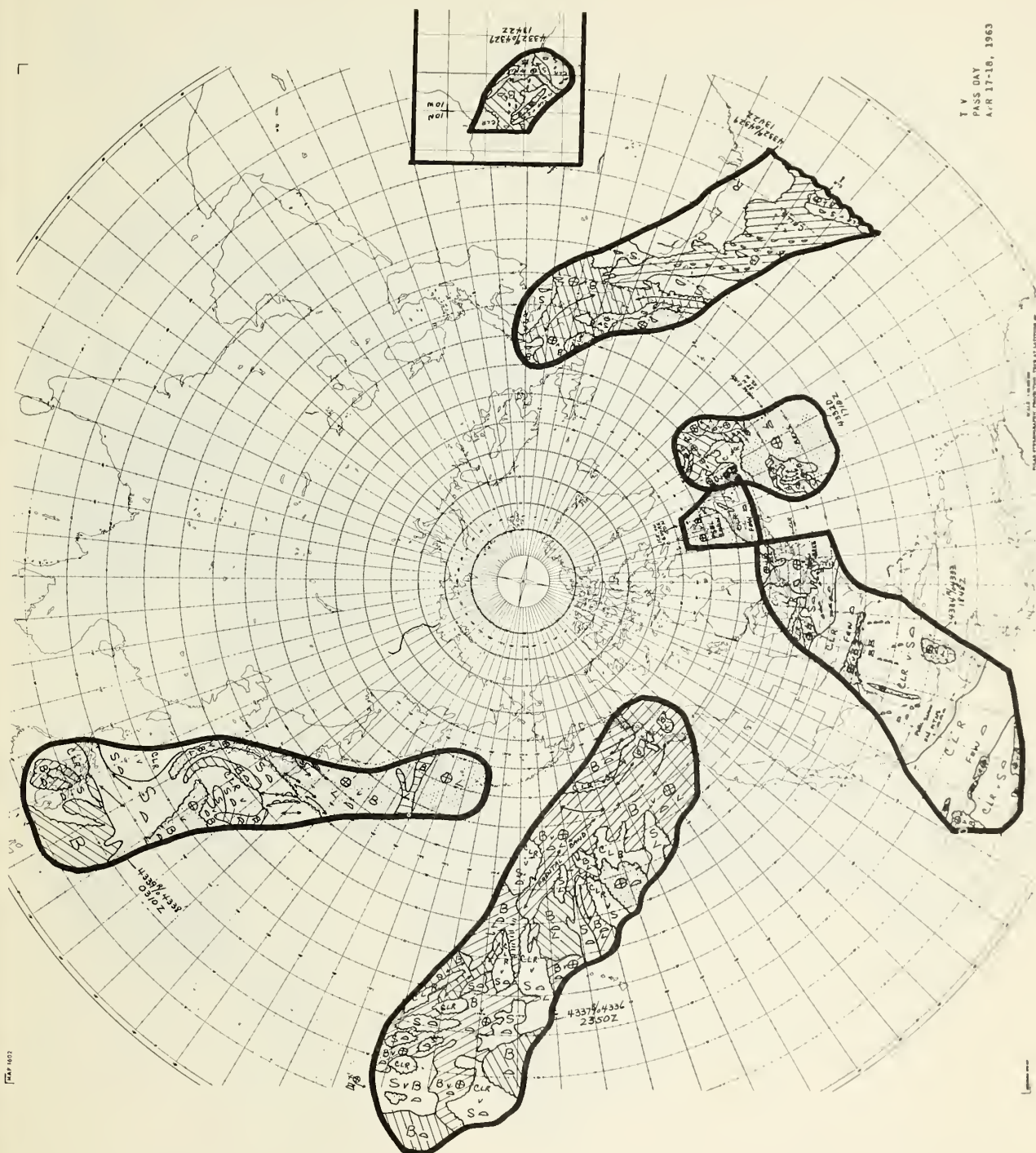




T V  
PASS DAY  
APR 15-16, 1963



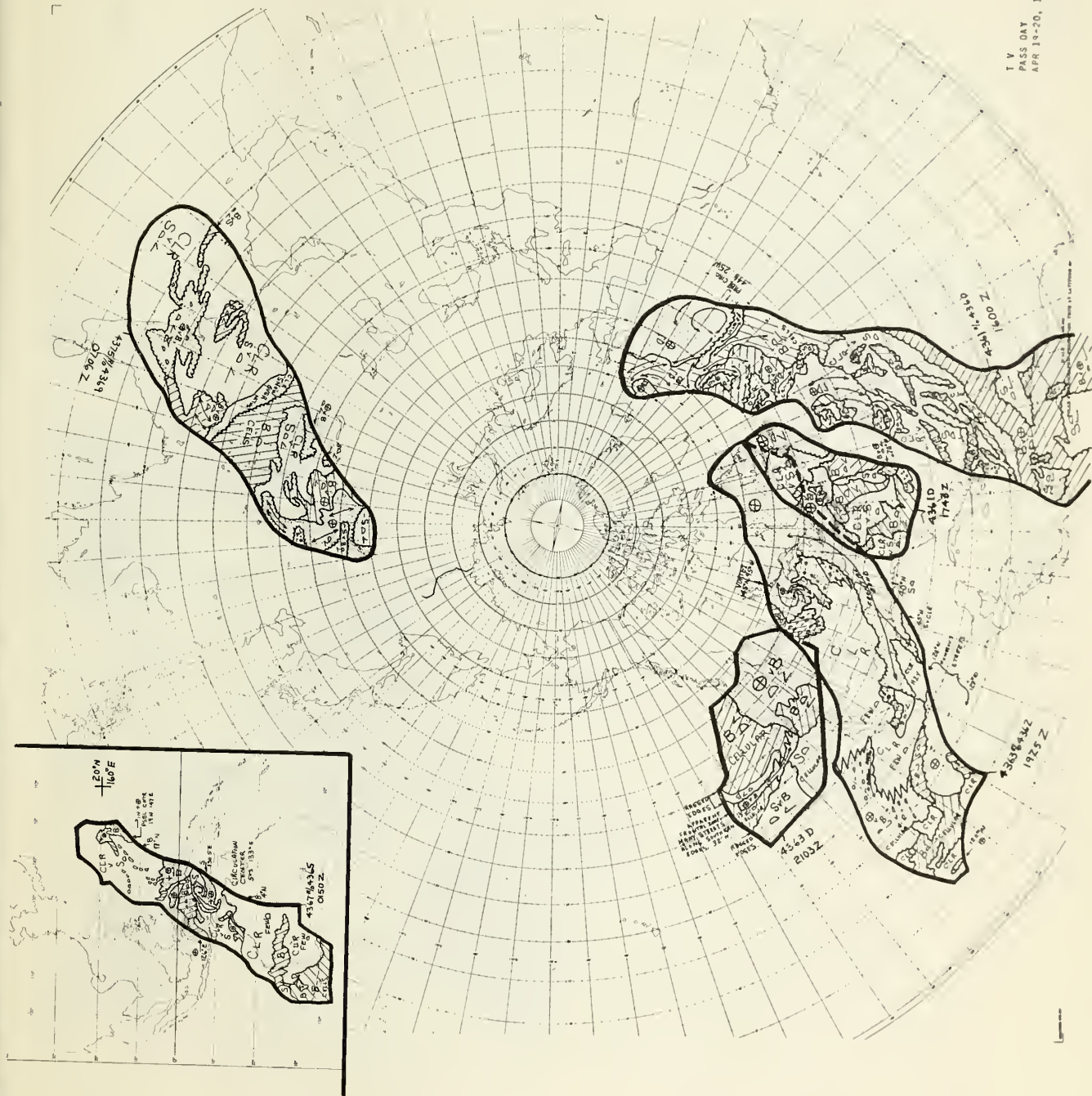






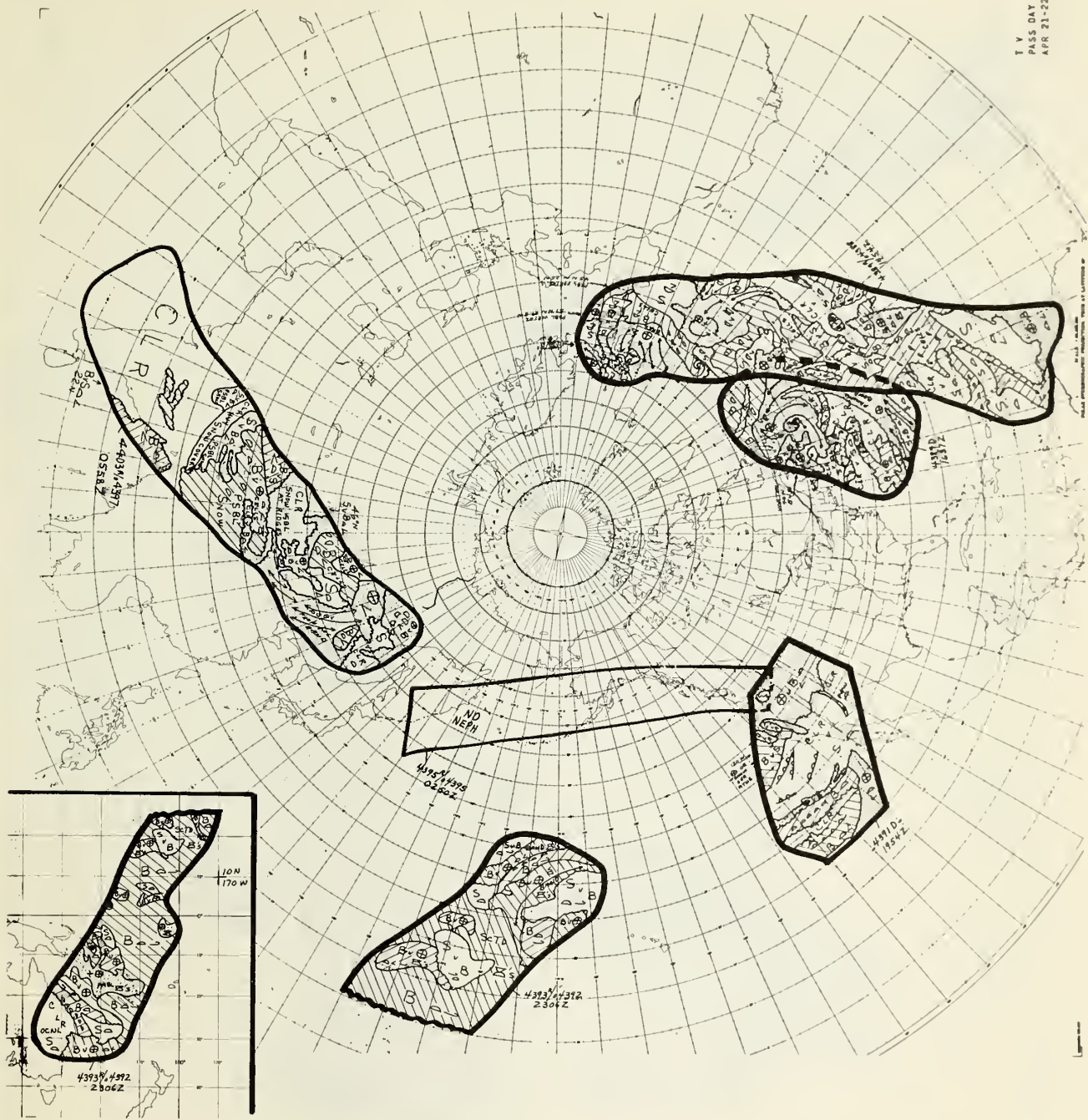
[illegible]

T V  
PASS DAY  
APR 18-20, 1963

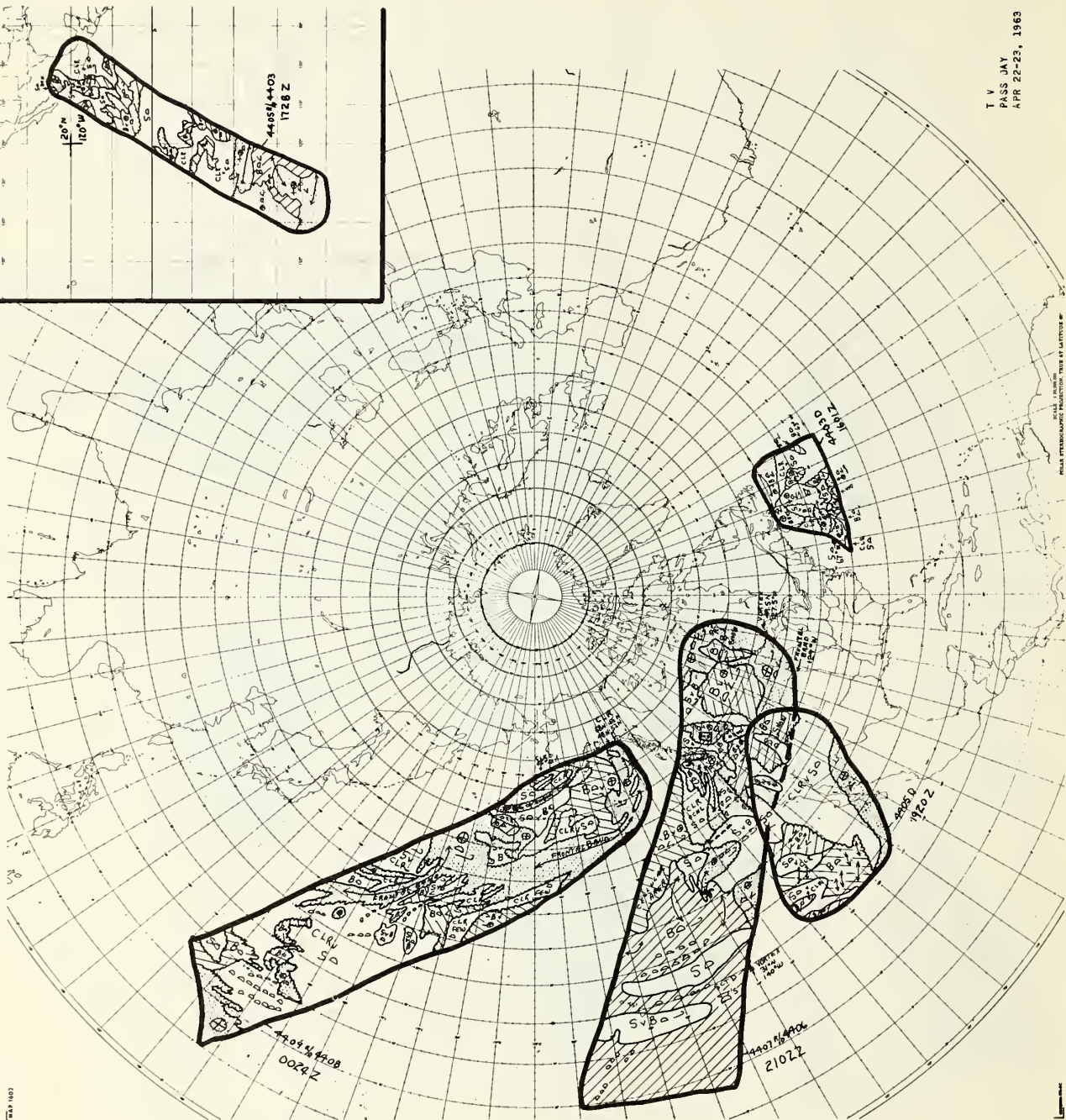






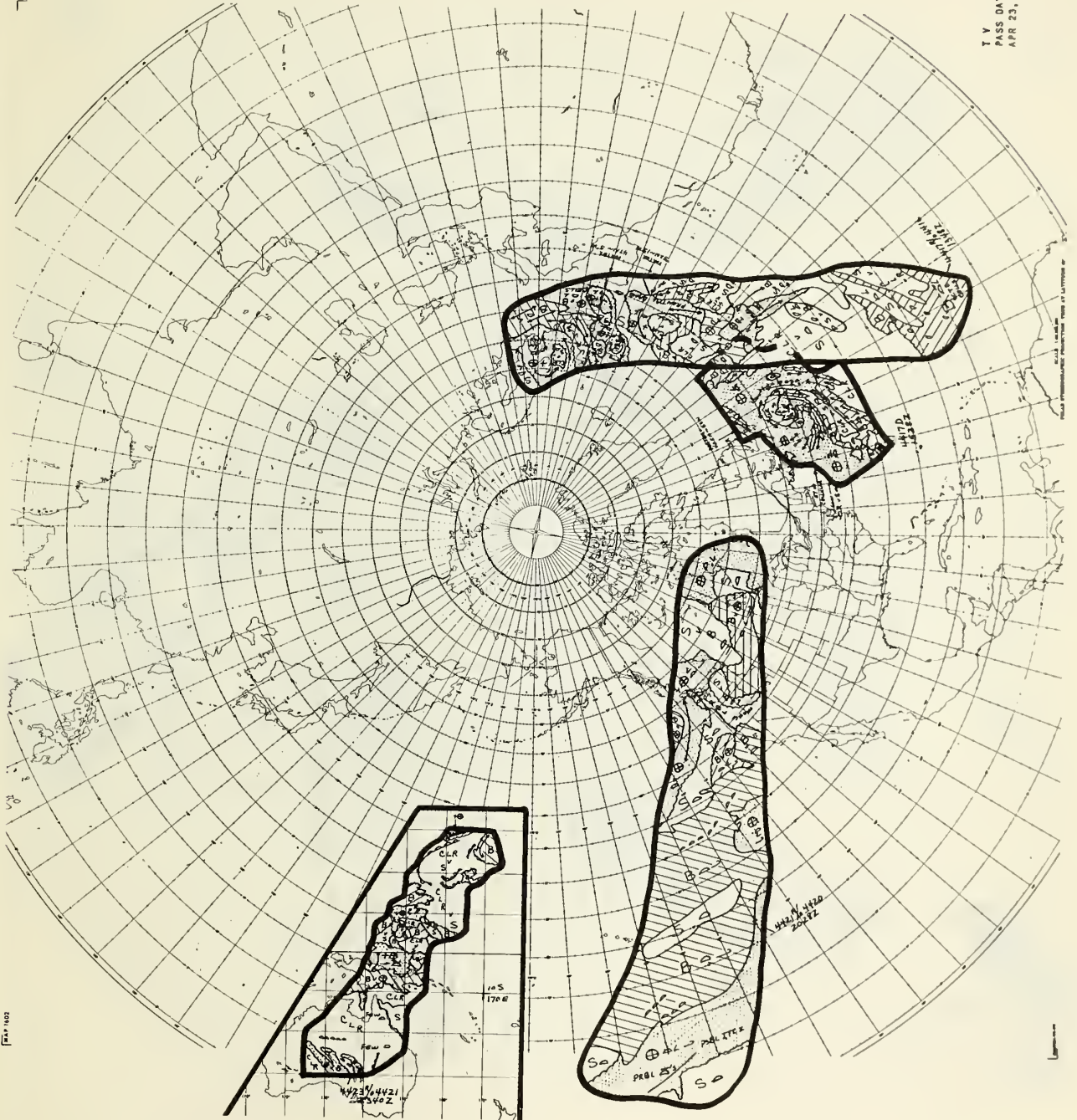






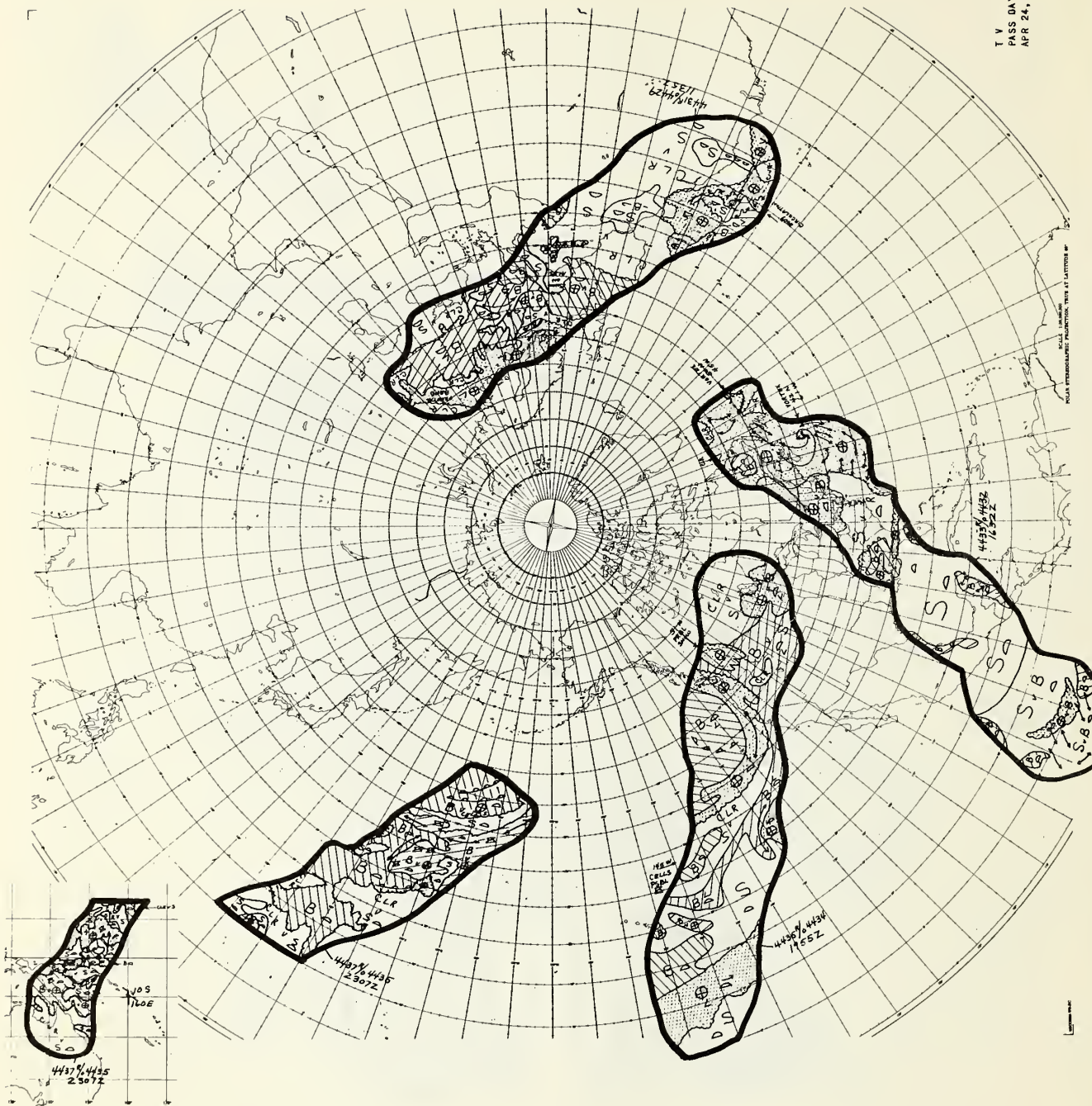
T V  
PASS JAY  
APR 22-23, 1963

T V  
PASS DAY  
APR 23, 1963



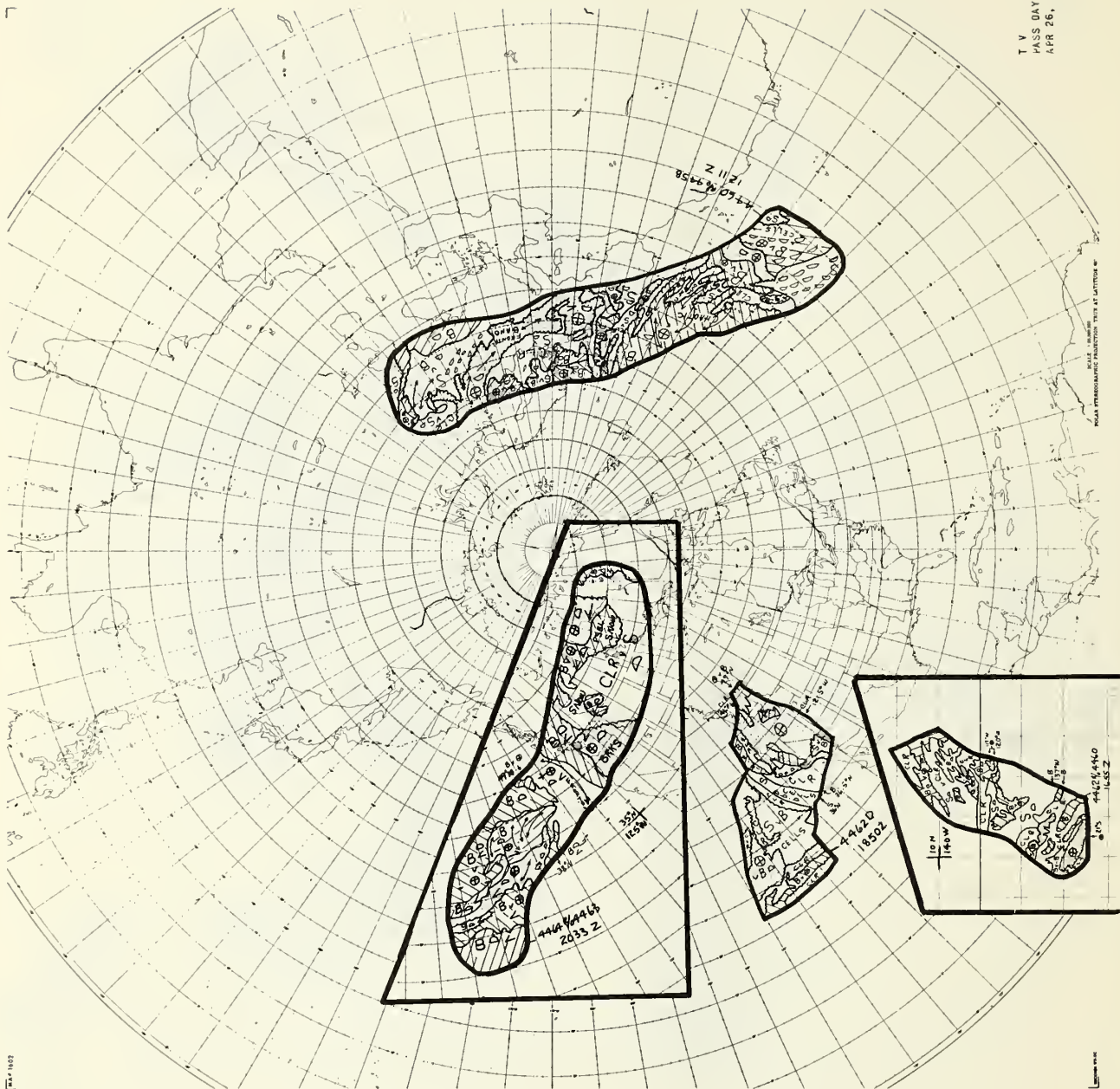


T V  
PASS DAY  
APR 24, 1963



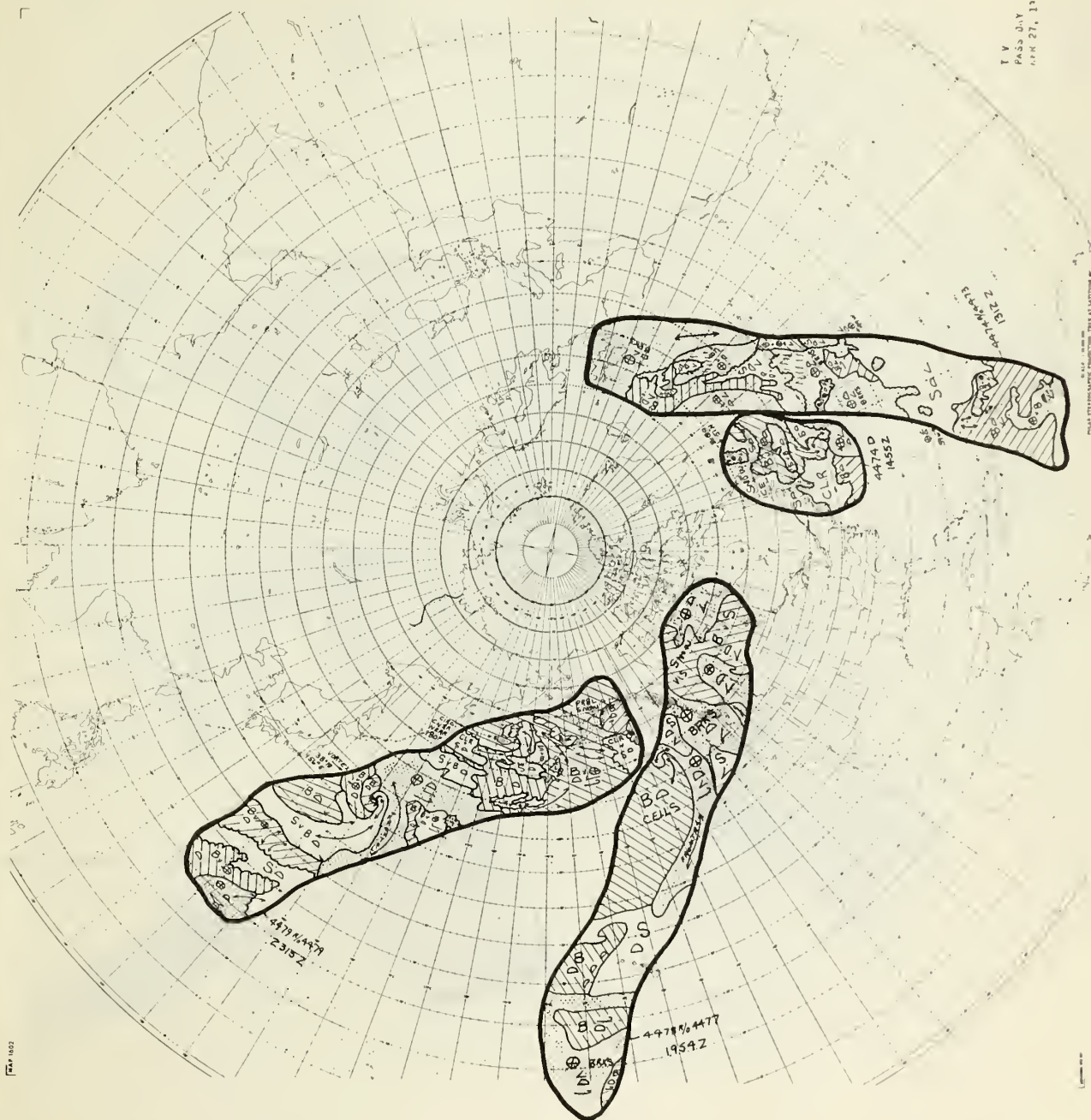




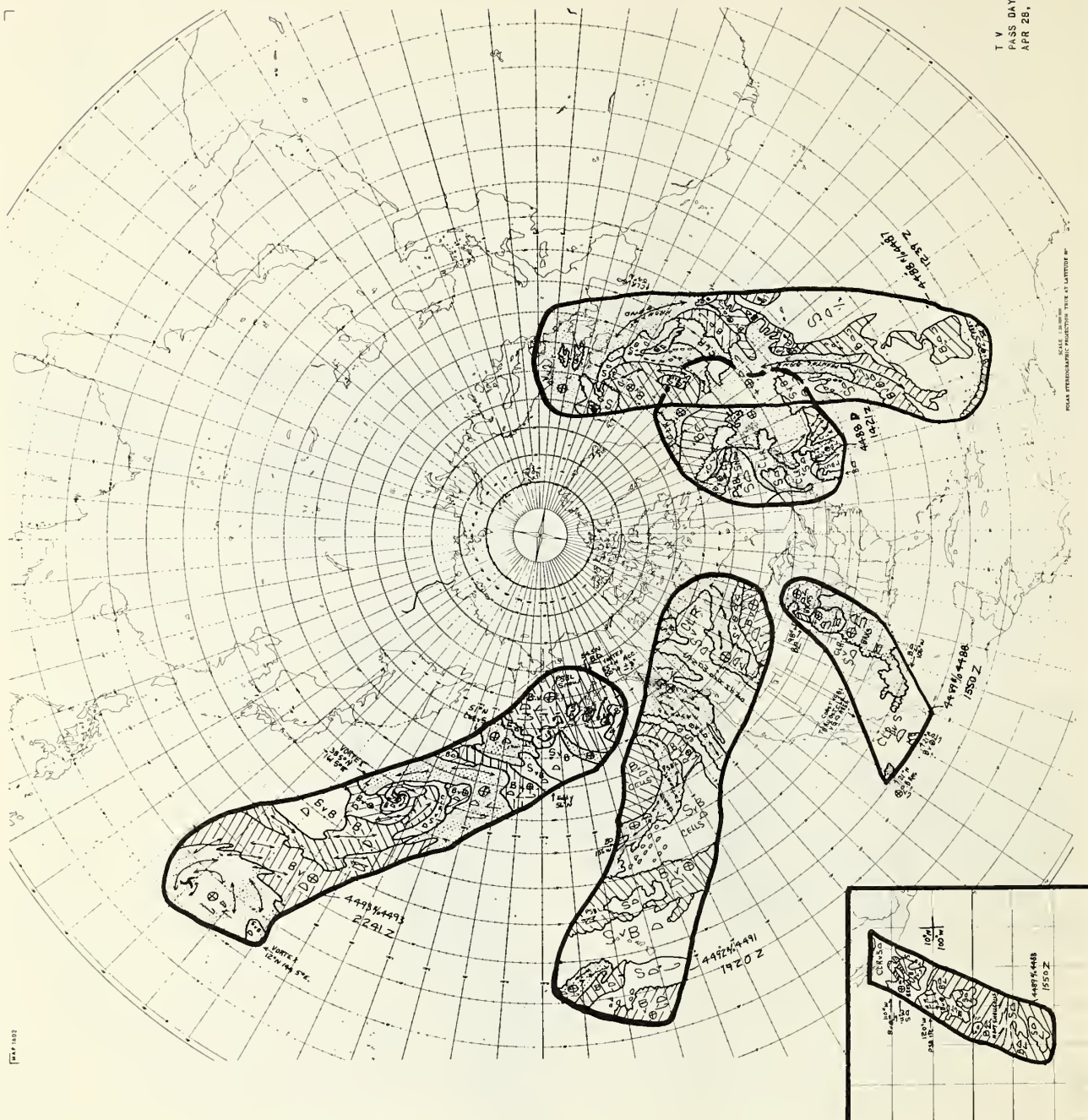


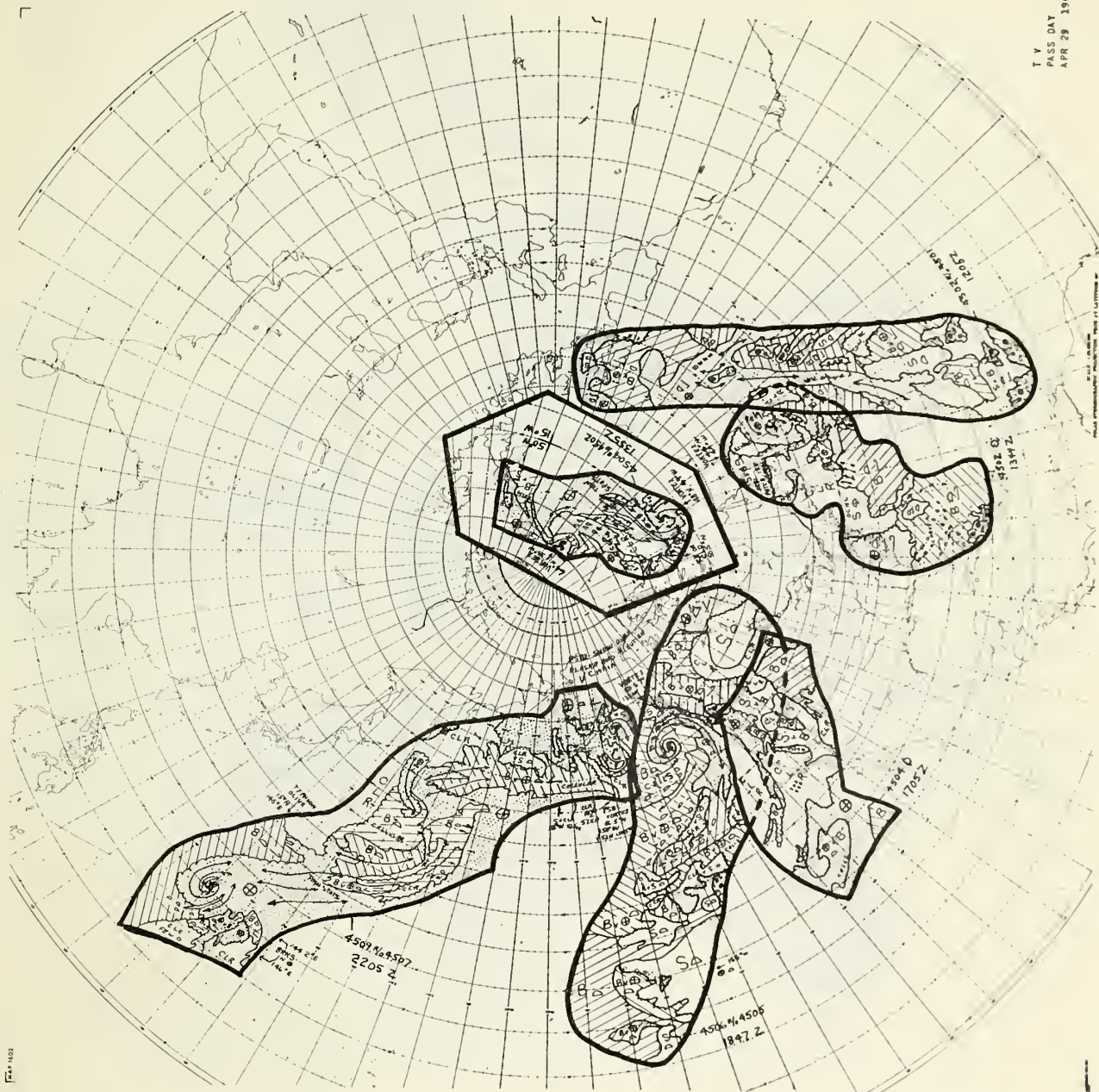
T V  
 PASS DAY  
 APR 26, 1963

1954-07-08 08:00 AM  
 1954-07-08 08:00 AM

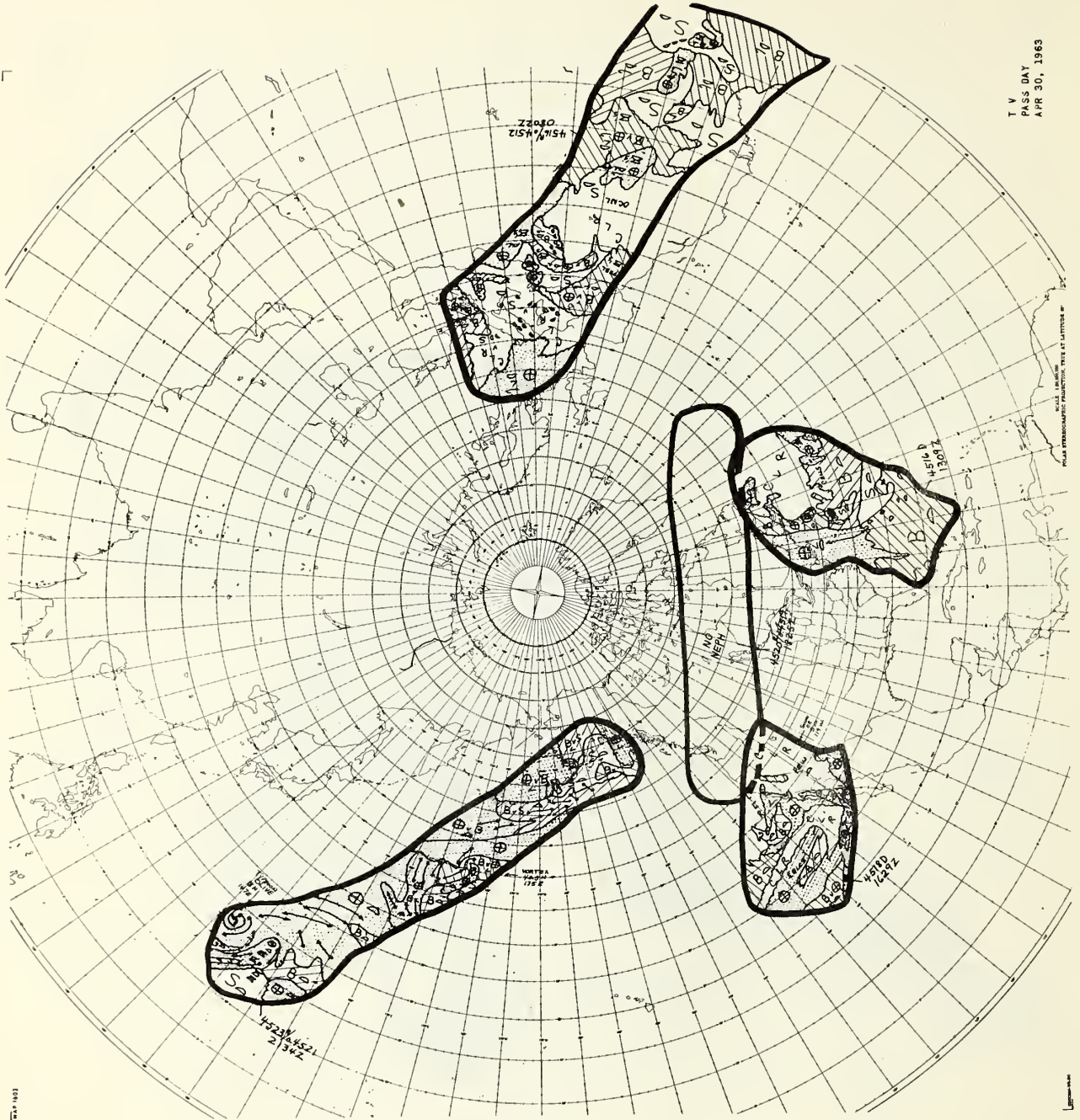




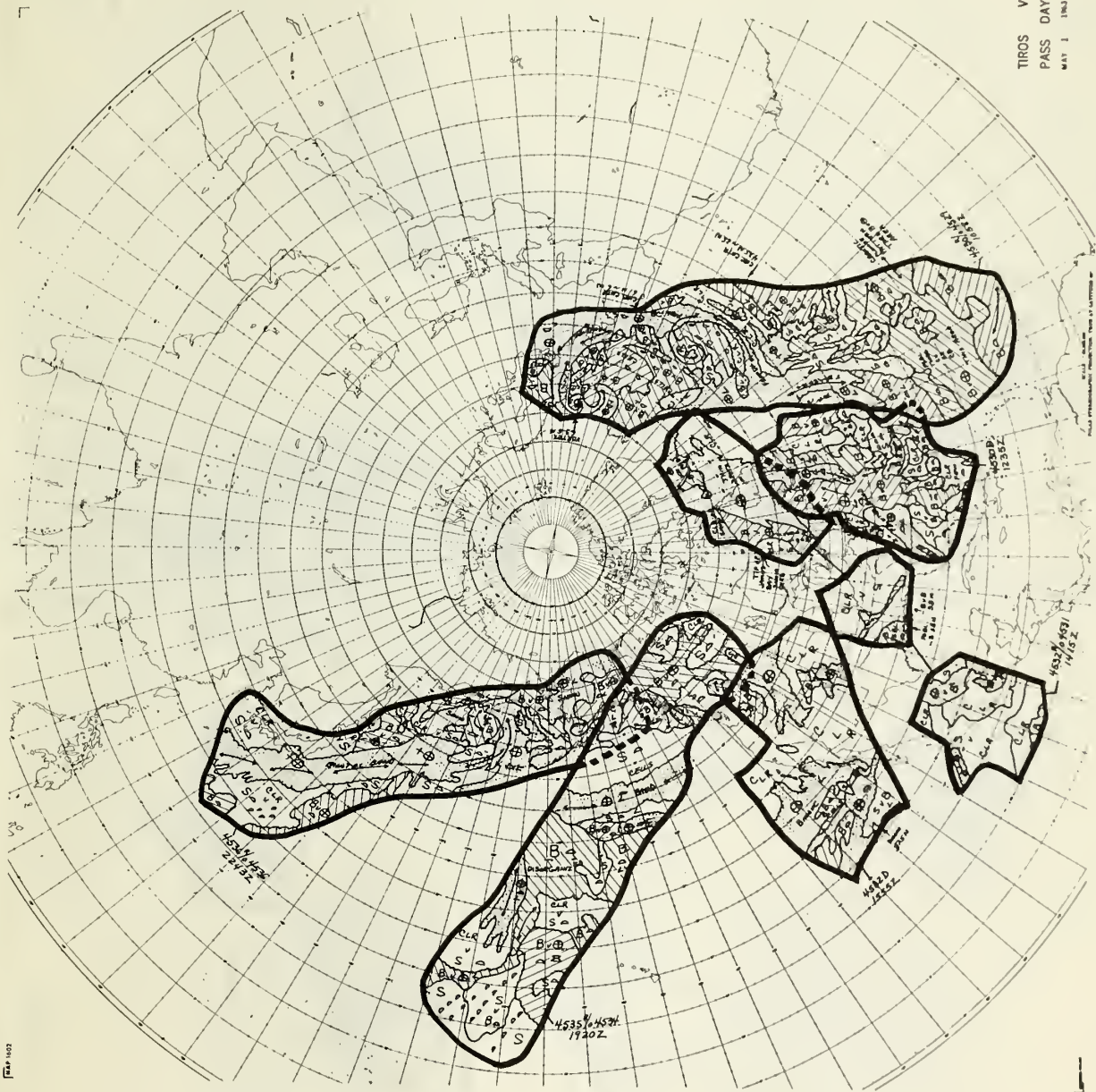








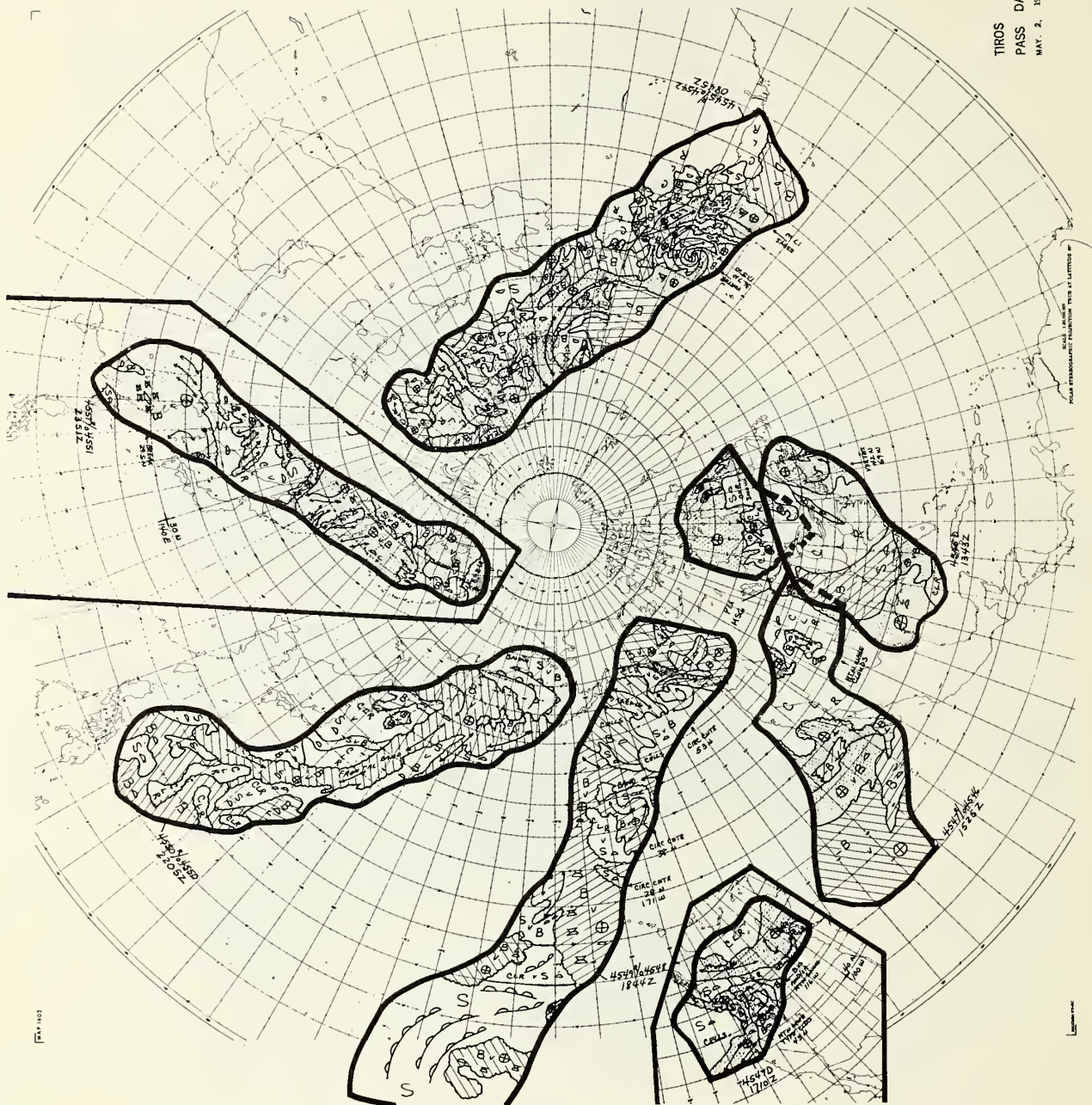
T V  
PASS DAY  
APR 30, 1963

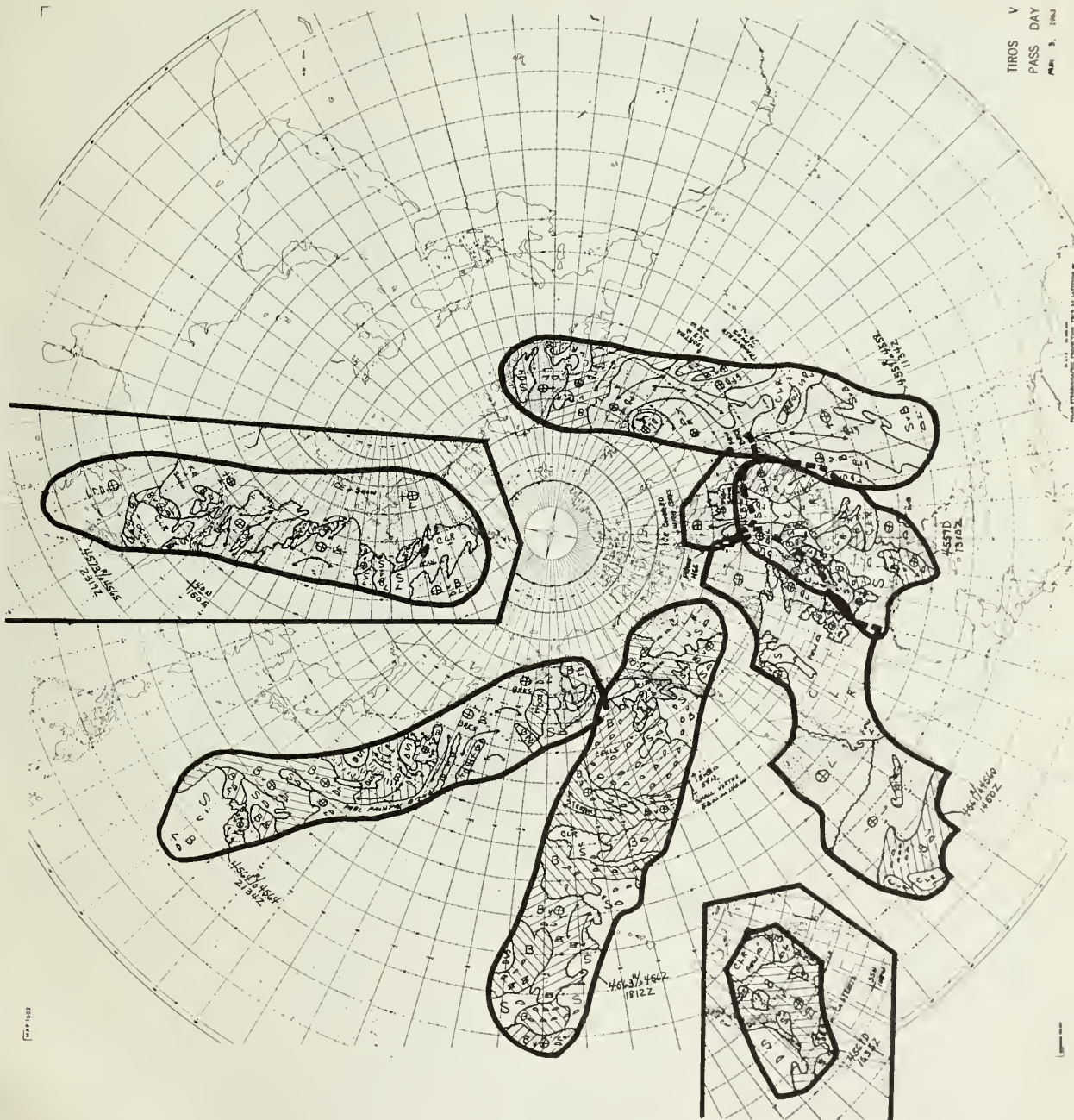


TIROS V  
PASS DAY  
MAY 1 1963



TIROS V  
PASS DAY  
MAY. 2, 1963

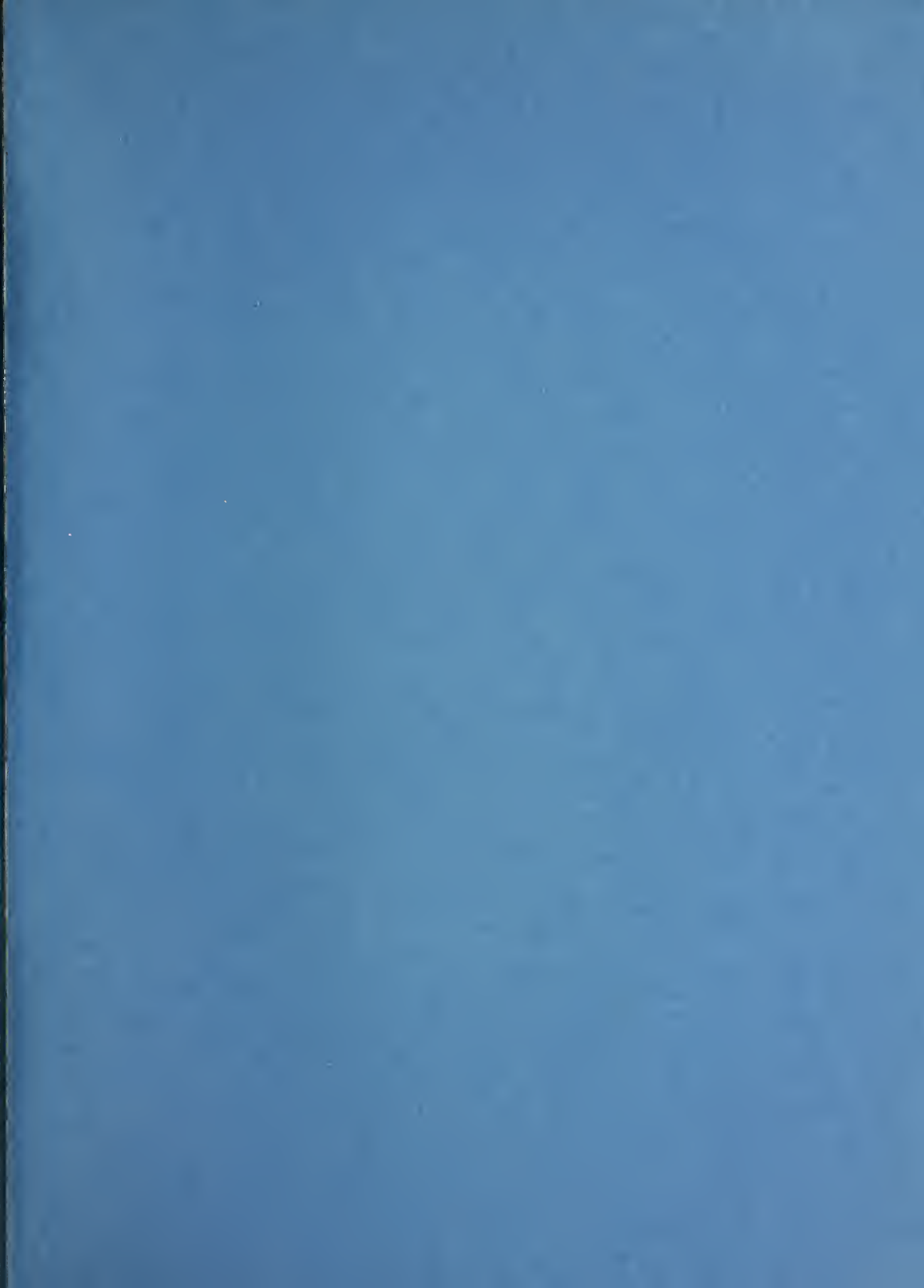




TIROS V  
PASS DAY  
MAR 3, 1963









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